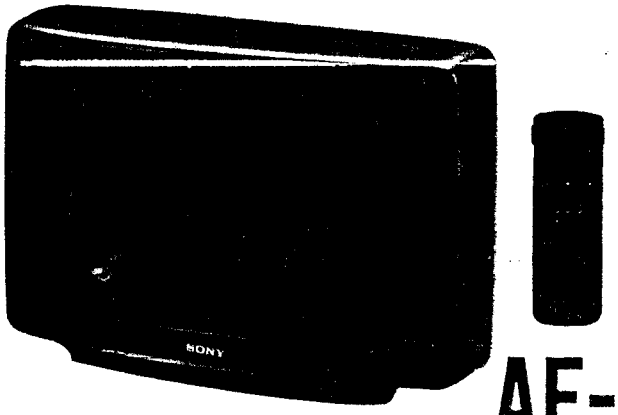
# KV-C2161D/C2561D/C2961D

## RM-816

# SERVICE MANUAL

*AEP Model*

*KV-C 2161 D*
*Chassis No. SCC-F 07 K-A*
*KV-C 2561 D*
*Chassis No. SCC-F 07 F-A*
*KV-C 2961 D*
*Chassis No. SCC-F 07 E-A*




# AE-1C CHASSIS

| MODELS OF THE SAME SERIES | |
|---|---|
| KV-C2161D/C2561D/C2961D | |
| KV-C2551D/C2951D | |
| KV-X2551D/X2951D | |

## SPECIFICATIONS

【KV-C 2161 D, KV-C 2561 D, KV-C 2961 D】

| | |
|---|---|
| Television system | B/G/H |
| Color system | PAL, SECAM, NTSC3.58, NTSC4.43 |
| Stereo system | GERMAN stereo |
| Channel coverage | VHF: E2-E12 UHF: E21-E69<br>CABLE TV (1) : S1-S41<br>CABLE TV (2) : S 01-S 05, M 1-M 10, U 1-U 10 |
| Picture tube | HI-Black Trinitron tube<br>Approx. 54.5 cm (21 inches) (KV-C 2161 D)<br>(Approx. 51 cm picture measured diagonally)<br>100 ° degree deflection<br>Approx. 63.5 cm (25 inches) (KV-C 2561 D)<br>(Approx. 59 cm picture measured diagonally)<br>110 ° degree deflection<br>Approx. 72.4 cm (29 inches) (KV-C 2961 D)<br>(Approx. 68 cm picture measured diagonally)<br>110 ° degree deflection |

Inputs / Outputs Terminals

REAR

| | |
|---|---|
| 21 pin Euro connector (CENELEC standard) | -Inputs for audio and video signals<br>-Inputs for RGB<br>-Outputs of TV video and audio signals |
| 2/21-pin Euro connector | -Inputs for audio and video signals<br>-Inputs for S-video<br>-Outputs for video and audio signals (selectable) |
| Audio output(vartable) | -phono jacks |

FRONT

Video input phono jack

Audio inputs (L,R) phono jacks

S-video Inputs-4 pin DIN

Headphone jack : stereo mini jack

-Continued no next page-

MICROFILM

TRINITRON® COLOR TV

SONY®

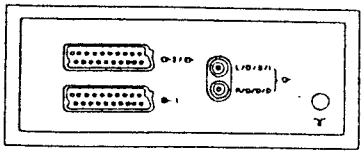
| | |
|---|---|
| **Sound output** | **15 W + 15 W** |
| **Power consumption** | **87 Wh (KV-C2161D)**<br>**101 Wh (KV-C2561D)**<br>**108 Wh (KV-C2961D)** |
| **Dimensions** | **Approx. 645 × 433 × 495 mm (w/h/d) (KV-C2161D)**<br>**Approx. 720 × 497 × 480 mm (w/h/d) (KV-C2561D)**<br>**Approx. 814 × 558 × 508 mm (w/h/d) (KV-C2961D)** |
| **Weight** | **Approx. 25kg (KV-C2161D)**<br>**Approx. 38kg (KV-C2561D)**<br>**Approx. 52kg (KV-C2961D)** |
| **Supplied accessories** | **RM-816 Remote Commander (1)**<br>**IEC designation R6 batteries (2)** |

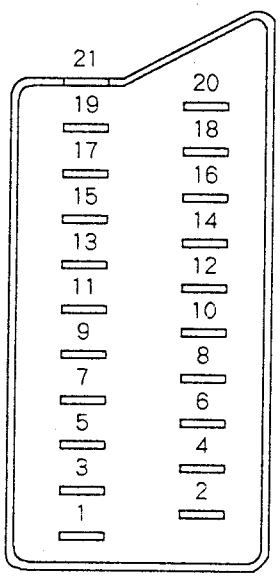
**【RM-816】**

| | |
|---|---|
| **Remote control system** | **infrared control** |
| **Power requirements** | **3V dc**<br>**2 batteries IEC designation R6 (size AA)** |
| **Dimentions** | **Approx. 75 × 221 × 23mm(w/h/d)** |
| **Weight** | **Approx. 230g (including batters)** |
| **Accessories supplied** | **IEC designation R6 batteries (2)** |

**Design and specifications are subject to change without notice.**

21 pin connector (⏏1 ⏏2)






| Pin No | 1 | 2 | 4 | Signal | Signal level |
|---|---|---|---|---|---|
| 1 | ○ | ○ | ○ | Audio output B (right) | Standard level : 0.5Vrms<br>Output impedance : Less than 1kohm * |
| 2 | ○ | ○ | ○ | Audio input B (right) | Standard level : 0.5Vrms<br>Input impedance : More than 10kohms * |
| 3 | ○ | ○ | ○ | Audio output A (left) | Standard level : 0.5Vrms<br>Output impedance : Less than 1kohm * |
| 4 | ○ | ○ | ○ | Ground (audio) | |
| 5 | ○ | ○ | ○ | Ground (blue) | |
| 6 | ○ | ○ | ○ | Audio input A (left) | Standard level : 0.5Vrms<br>Input impedance : More than 10kohms * |
| 7 | ○ | ● | ● | Blue input | 0.7 ± 3dB, 75ohms, positive |
| 8 | ○ | ○ | ○ | Function select (AV control) | High state (9.5 – 12V) : Part mode<br>Low state (0 – 2V) : TV mode<br>Input impedance : More than 10kohms<br>Input capacitance : Less than 2nF |
| 9 | ○ | ○ | ○ | Ground (green) | |
| 10 | ○ | ○ | ○ | Open | |
| 11 | ○ | ● | ● | Green | Green signal : 0.7V ± 3dB, 75ohms, positive |
| 12 | ○ | ○ | ○ | Open | |
| 13 | ○ | ○ | ○ | Ground (red) | |
| 14 | ○ | ○ | ○ | Ground (blanking) | |
| 15 | ○ | – | – | Red input | 0.7V ± 3dB, 75ohms, positive |
| | – | ○ | ○ | (S signal) croma input | 0.3V ± 3dB, 75ohms, positive |
| 16 | ○ | ● | ● | Blanking input (Ys signal) | High state (1 – 3V) Low state (0 – 0.4V)<br>Input impedance : 75ohms |
| 17 | ○ | ○ | ○ | Ground (video output) | |
| 18 | ○ | ○ | ○ | Ground (video input) | |
| 19 | ○ | ○ | ○ | Video output | 1V ± 3dB, 75ohms, positive Sy c : 0.3V ( – 3, + |
| 20 | ○ | – | – | Video input | 1V ± 3dB, 75ohms, positive Sync : 0.3V ( – 3, + |
| | – | ○ | ○ | Video Input/Y (S signal) | 1V ± 3dB, 75ohms, positive Sync : 0.3V ( – 3, + 10dB) |
| 21 | ○ | ○ | ○ | Common ground (plug, shield) | |

○ Connected ● unconnected (open) * at 20Hz – 20kHz

4 Pin connector (S⏏)

| Pin No | Signal | Signal level |
|---|---|---|
| 1 | Ground | |
| 2 | Ground | |
| 3 | Y (S signal) input | 1V ± 3dB 75ohm, positive Sync 0.3V $^{+\frac{3}{10}}_{-}$ dB |
| 4 | C (S signal) input | 0.3V ± 3dB 75ohm, positive |

## TABLE OF CONTENTS


| Section | Title | Page |
|---|---|---|
| **1. GENERAL** | | |
| | Switching On / Off | 4 |
| | Presetting | 4 |
| | Basic TV Operation | 6 |
| | Advanced TV Operation | 7 |
| | Teletext Operation | 8 |
| | Optional Connections / Operations | 9 |
| **2. DISASSEMBLY** | | |
| 2-1-1. | Rear Cover Removal (21inch) | 10 |
| 2-1-2. | Rear Cover Removal (25inch, 29inch) | 10 |
| 2-2-1. | Chassis Assembly Removal (21inch) | 10 |
| 2-2-2. | Chassis Assembly Removal (25inch, 29inch) | 10 |
| 2-3. | A and J1 Boards Removal | 11 |
| 2-4. | B and V Boards Removal | 11 |
| 2-5-1. | Service Position (21inch) | 12 |
| 2-5-2. | Service Position (25inch, 29inch) | 12 |
| 2-6-1. | Picture Tube Removal (21inch) | 13 |
| 2-6-2. | Picture Tube Removal (25inch, 29inch) | 14 |
| **3. SET-UP ADJUSTMENTS** | | |
| | (21inch, 25inch) | |
| 3-1. | Beam Landing | 15 |
| 3-2. | Convergence | 16 |
| 3-3. | Focus | 18 |
| 3-4. | White Balance | 18 |
| | (29inch) | |
| 3-5. | Beam Landing | 20 |
| 3-6. | Convergence | 21 |
| 3-7. | Focus | 23 |
| 3-8. | White Balance | 23 |
| **4. CIRCUIT ADJUSTMENTS** | | |
| 4-1. | A Board Adjustments | 24 |
| 4-2. | B Board Adjustments | 24 |
| 4-3. | D Board Adjustments | 25 |
| 4-4. | J1 Board Adjustments | 26 |
| 4-5. | V Board Adjustments | 26 |
| 4-6. | Secondary Adjustments | 27 |
| **5. DIAGRAMS** | | |
| 5-1. | Block Diagram | 29 |
| 5-2. | Circuit Boards Location | 35 |
| 5-3. | Schematic Diagrams and Printed Wiring Boards | 35 |
| 5-4. | Semiconductors | 66 |
| **6. EXPLODED VIEWS** | | |
| 6-1. | Chassis (21inch) | 68 |
| 6-2. | Picture Tube (21inch) | 69 |
| 6-3. | Chassis (25inch, 29inch) | 70 |
| 6-4. | Picture Tube (25inch, 29inch) | 71 |
| **7. ELECTRICAL PARTS LIST** | | 72 |


**CAUTION**

**SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.**

**SAFETY-RELATED COMPONENT WARNING !!**

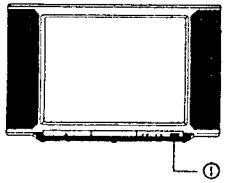
**COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

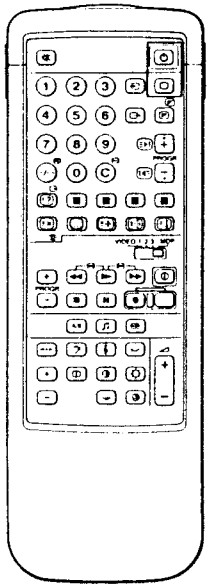
# SECTION 1
# GENERAL

**The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.**

## 1-1. SWITCHING ON/OFF

**After you have completed the basic preparation your TV is ready to be connected to the mains power supply (220/240V AC, 50Hz).**





### How to turn the TV on

| Action | Result |
|---|---|
| Press ⏻ on the TV. | The TV will turn on.<br>**Note:** If the screen remains blank, the TV may be in the standby mode. Press ▢ or any number button on the commander to switch it on. |

### How to turn the TV off

| A Temporarily | |
|---|---|
| Press ⏻ to enter standby mode. | The TV will be in standby. To return to the TV mode press ▢ |
| **B Completely** | |
| Press ⏻ on the TV. | The TV will turn off. |

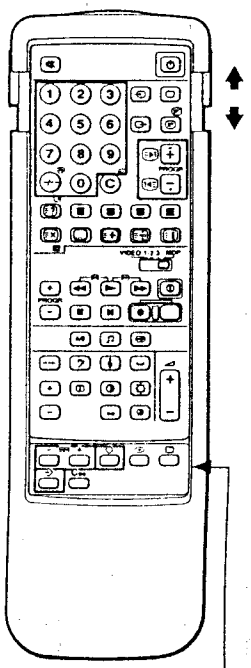
## 1-2. PRESETTING

After you have installed this TV you need to preset TV channels.

TV stations broadcast their channels at certain frequencies. You must preset these channels to programme numbers on this TV before you can watch the TV programmes.

There are 60 spaces for storing these channels.

Slide open the full function side of the remote commander to reveal preset buttons.

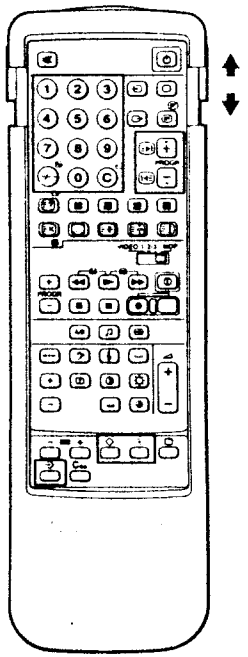


**Note:** These buttons should be used in preset mode only.

### How to preset channels automatically

If you are unfamiliar with the channel numbers of the stations you wish to preset, use "How to preset channels automatically". If you are familiar with the channel numbers refer to "How to preset T.V. channels directly".

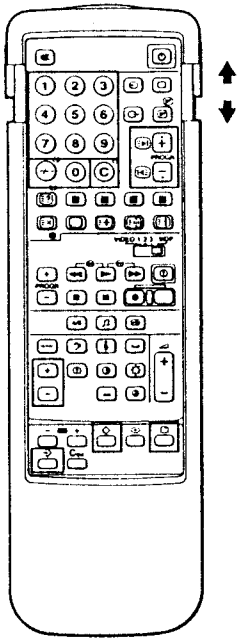
| Action | Result |
|---|---|
| **1** Press ◇ to enter the preset mode. | The programme number will start flashing. |
| **2** Press PROGR + or - or the number buttons to select the programme number to which you want to preset channels.<br>**Note**<br>To select a double-digit number, use the -/-- button. For example, if you want to choose 23, press -/--, 2, and then 3. | The programme number changes |
| **3** Press ⇔ + or - once to search forward or backward for channels. | When a channel is tuned in, the search will stop.<br>**Note**<br>If you want to skip a channel, press ⇔ + or ⇔ -. |
| **4** Press ◇ if you want to store the channel which is tuned in.<br>Press ◇ to exit preset mode without storing. | The channel is now stored and you have returned to TV mode. |
| **5** Repeat steps 1 to 4 to store the other channels. | |



## How to preset channels directly

| Action | Result |
|---|---|
| **1** Press ⇢ to enter the preset mode. | The programme number will start flashing. |
| **2** Press PROGR +/– or the number buttons to select the programme number on which you want to preset a channel.<br>**Note**<br>To select a double-digit number, use the -/-- button. For example, if you want to choose 23, press -/--, 2, and then 3. | The programme number changes. |
| **3** Press C.<br>If you want to select a cable channel, press C twice. | The indication "C--" ("S--" for a cable channel) starts flashing on the display. |
| **4** Select the channel number with two digits (e.g. 04) by pressing the number buttons.<br>**Note**<br>Press the second number within 5 seconds after the first one, otherwise the operation will be cancelled. | The channel number changes.<br>**Note** If you have made a mistake the letter "X" will appear. Repeat step 4 again. |
| **5** Press ◇ to store the channel which is tuned in.<br>Press ⇢ to exit the preset mode without storing. | The channel is now stored and you have returned to TV mode. |

*Repeat steps 1 to 5 to store the other channels.*



## How to Name a Station

You can use up to five characters to "name" a channel or station (i.e. BBC1).

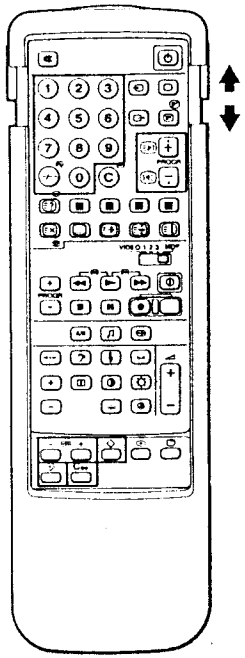
| Action | Result |
|---|---|
| **1** Select a programme number you want to name by pressing the PROGR +/– or the number buttons | The selected programme number will appear. |
| **2** Press ⇢. | The programme number starts flashing. |
| **3** Press C. | The first column of the station name indication will start flashing. |
| **4** Press + or – to select a letter in the alphabet, a number, or a blank space. | The letters of the alphabet, numbers and the space ("-") will appear sequentially. |
| **5** Press C. | The first character is now set and the second column will start flashing. |
| **6** Repeat steps 4 and 5 to set each letter. | |
| **7** Press ◇. | The channel name is now stored and you have returned to TV mode. |

## How to tune in a channel temporarily

You can tune a channel in temporarily, if it has not been preset.

| Action | Result |
|---|---|
| **1** Press C.<br>For cable channels, press C twice. | The indication "C" ("S" for cable channels) appears on the screen. |
| **2** Select the channel number with two digits by pressing the number buttons (e.g. for channel 4, first press 0, then 4.) | The channel is received, but it is not stored to any programme number. |

# 1-3. BASIC TV OPERATION



## How to Skip Programmes

Using the PROGR +/– buttons you can skip unused programme channel numbers. However, the skipped numbers may still be called up using the number buttons.

| Action | Result |
|---|---|
| **1** Press ⇳ to enter the preset mode. | The programme number will start flashing. |
| **2** Select the programme number that you want to skip by pressing PROGR +/– or the number buttons. | The programme number changes. |
| **3** Press C00. | The lowest channel number appears under the programme number. |
| **4** Press ◇. | The channel is now stored and you have returned to TV mode. |
| Repeat steps 1 to 4 to skip other programme numbers. | |

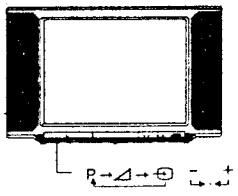
## How to Fine Tune Manually

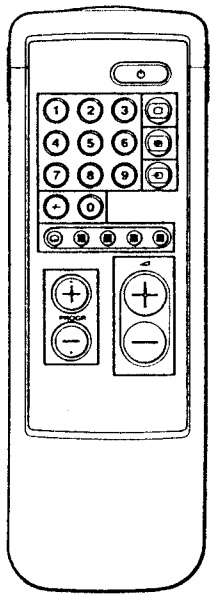
If the picture is distorted, you can fine tune the channel manually.

| Action | Result |
|---|---|
| Press ⇔ + or – repeatedly until the picture looks normal. | The indication ← F → appears on the screen. |
| Press ⇳ to enter the preset mode. | The programme number starts flashing. |
| Press ◇. | The fine tuning is stored. |

**Note:** The automatic fine tuning will function again when you preset the channel once more.

**Note:** Press ⊥ on door to open.





This section introduces you to the basic control functions which are available on the simple side of the remote commander.

## How to Select Programmes

Before you can select programmes make sure that you have preset channels.

| Action | Result |
|---|---|
| Press PROGR +/– or the number buttons. To select a double-digit number, use the -/-- button. For example, if you want to choose 23, press -/--, 2, and then 3. | The selected programme is displayed. |

## How to Adjust the Volume

| Action | Result |
|---|---|
| Press ◿ + or –. | The volume markers will appear. |

## How to Use Additional Functions

### How to operate with the buttons on the TV

You can also select programmes and adjust the volume using the P→◿→⊖ and →•← +/– buttons on the front of the TV.
For operation, first press the P→◿→⊖ button repeatedly so that the P (for programme) or ◿ (for volume) indication appears on the screen, and then adjust with the →•← +/– buttons.

### How to view the teletext

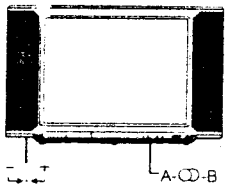
Press ▤. To return to the TV mode, press ▢.
For details about the teletext operation.

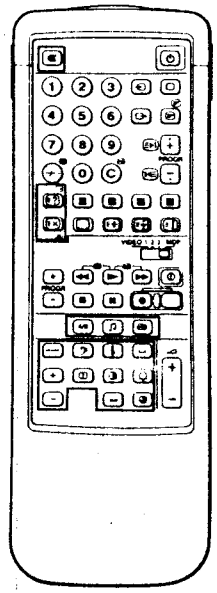
### How to view the video input picture

Press ⊖ To return to the TV mode, press ▢. For further details.

# 1-4. ADVANCED TV OPERATION

This section shows you how to use convenient features and how to adjust the picture and sound to your taste.
Use the full-function side of the Remote Commander.



## How to use on-screen display and special sound features

You can enjoy the following convenient features.

| How to | Action | To resume normal picture/sound |
|---|---|---|
| Display on-screen indications | Press ⊡. | Indications disappear after some seconds |
| Display programme numbers | Press ⊡ twice. | Press ⊡ twice again. |
| Mute the sound | Press 🔇. | Press 🔇 again. |
| Select a language in bilingual programmes | Press A/B. The selected mode of the A-CD-B indicator on the TV lights up. | Press A/B. |
| Set the sound to music listening position | Press ♫. | Press ♫ again. |
| Use the space sound (special acoustic effect) | Press ⊕⊕. | Press ⊕⊕ again. |
| Request the time | Press ⊡. | Press ⊡ again. |

## How to adjust the picture and sound

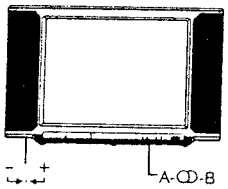
Although the picture and sound have been adjusted at the factory, you might want to adjust them to your own taste. To do this, please follow the steps.

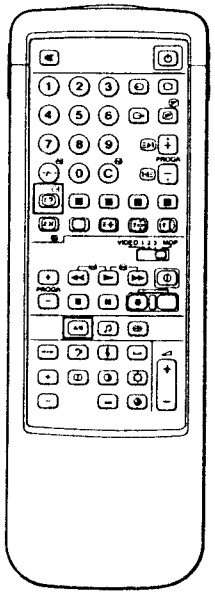
**For picture adjustment**

| To Adjust: | Press: | Then: | Result: (+ ⟷ −) |
|---|---|---|---|
| **Picture:** | | | |
| Colour Intensity | ◕ | + / − | More ⟷ Less |
| Picture Contrast | ◑ | | More ⟷ Less |
| Brightness | ☼ | | Bright ⟷ Dark |
| Hue (for NTSC only) | | | Reddish ⟷ Greenish |
| | | | Sharp ⟷ Soft |
| **Sound:** | | | |
| Bass | | + / − | More ⟷ Less |
| Treble | | | More ⟷ Less |
| Balance | | | More Right/More Left |

To reset the picture and sound to factory set levels press →·←.

***On the set:***
Press →·← +/− buttons simultaneously.



## How to select a NICAM broadcast

This Sony TV has been designed to select Nicam broadcasts when available. Whenever a Nicam broadcast is received, the ⋈ symbol appears briefly on the screen. When the Nicam programme ends, or you switch channels to one without Nicam, the ⋈ symbol appears. To check if the channel you are watching is receiving Nicam, press the on screen display button ⊡, on the full function side of the remote commander.

## How to select the sound of your choice

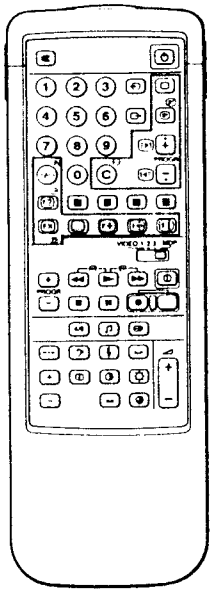
Nicam programmes can be broadcast in three ways. You may select the sound you want to hear in each of these, by pressing the ⊟ button on the full function side of the remote commander.

| Nicam service being broadcast | Action | The sound you hear | Indication on the TV A□B |
|---|---|---|---|
| Stereo | | Stereo | □ □ |
| | Press A/B | Normal | □ □ |
| | Press A/B again to return to stereo | | |
| Mono | | Mono | □ |
| | Press A/B | Normal | □ □ |
| | Press A/B again to return to Nicam mono. | | |
| Bilingual | | Language A | □ |
| | Press A/B | Language B | □ □ |
| | Press A/B | Normally broadcast language | □ □ |
| | Press A/B again to return to language A | | |

* Depending on availability of service.

# 1-5. TELETEXT OPERATION

*TV stations broadcast teletext programmes via the TV channels. To receive teletext programmes, use the buttons indicated in green on the full side of the Remote Commander.*
With the simple side of the Remote Commander, only the basic operation is possible.



## How to View the Teletext

| Action | Result |
|---|---|
| **1** Select the channel which carries the teletext service you wish to see. | The channel changes on the screen. |
| **2** Press ▣. | Teletext will appear. If the teletext signal is not broadcast, then p100 is displayed. |
| **3** Input three digits for the page number using the number buttons.<br>**Note**<br>If you make a mistake, type in any three digits, then re-enter the correct page number. | The numbers are entered on the screen. The requested page will appear in a few seconds. |
| **To return to the TV mode.**<br>Press ▢.<br>**To change the teletext channels**<br>First press ▢ to return to the TV mode, then repeat steps 1 to 3. | |

**Note**
If the signal of the TV channel is weak, teletext errors may often occur.

## How to Use the Advanced Features of Teletext

| How to | Action | Result (On-screen display) |
|---|---|---|
| Request the index page. | Press ⓘ (INDEX). | The index page appears. |
| Request the subtitle page (p888). | Press ▢. | The subtitle page is displayed (p888). |
| Access the next or preceding page. | Press ⊕ (PAGE +) or ⊖ (PAGE –). | The next or preceding page appears. |

| How to | Action | Result |
|---|---|---|
| Superimpose the teletext display on the TV programme. | Press ▣ once if you are in text mode, or press ▣ twice if in TV mode.<br>To return to the normal teletext display press ▣ again. | The teletext displays are superimposed on the TV programmes. |
| Prevent a teletext page from being updated or changed. | Press ⊞ (HOLD).<br>To resume normal teletext reception, press ▣ (TEXT/MIX). | The HOLD symbol ( ⊞ ) appears on the screen and the chosen sub-page is held until you cancel. |
| Enlarge the teletext display. | Press ⊡ once to enlarge the upper half. Press twice to enlarge the lower half.<br>Press again to restore the normal display. | The upper half is enlarged. |
| Reveal concealed information (e.g. answers to a quiz). | Press ⓡ (REVEAL).<br>Press again to conceal the information. | The information is revealed. |
| Watch the TV programme while waiting for a requested page to be displayed. | **1.** Request a new page. | The numbers are entered. |
| | **2.** Press ⊠ (TEXT CL). | The TV program is displayed, and the requested page number and other teletext data appear at the top of the screen. |
| | **3.** When the requested page has been captured, the page number remains and the other data disappears. | |
| | **4.** Press ▣ to view this page. | The requested page is displayed. |
| Have a requested page displayed at a pre-determined time. | **1.** Request a desired page. | The requested page is displayed. |
| | **2.** Press ⓣ (TP ON). | "T****" appears at the bottom of the screen. |
| | **3.** Enter the time you want to have the page displayed with four digits using the number buttons. (For example, enter 0730 for 7:30 AM.) | The time is entered on the screen. |
| | **4.** Press ⊠ (TEXT CL) to watch the TV programme until the requested time. | At the requested time, the page number will be displayed at the top of the screen, to view this page, press ▣. |
| | **To cancel the request**<br>Display the teletext page, then press ⊘ (TP OFF). | The request is cancelled. To resume TV mode press ▢. |

Some of the features may not be available depending on the Teletext service.

# 1-6. OPTIONAL CONNECTIONS/OPERATIONS

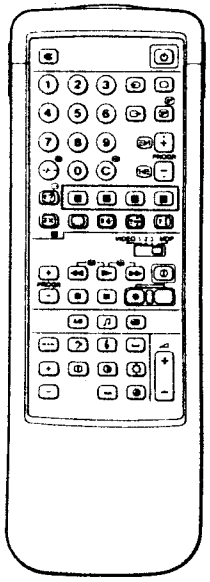
## How to use the FASTEXT Feature

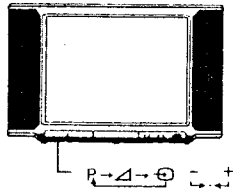
FASTEXT feature allows you to access pages quickly with one key operation.
When a FASTEXT page is broadcast, a colour coded menu appears at the bottom of the screen. Each coloured prompt corresponds to the coloured buttons on either side of your Remote Commander.

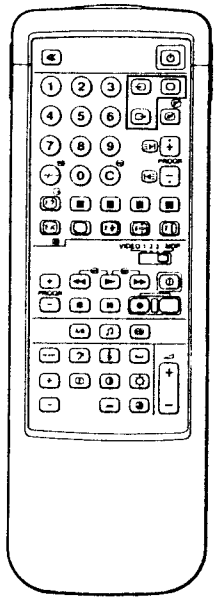
**Operation**

| Action | Result |
|---|---|
| Press one of the coloured buttons which corresponds to the coloured prompt on the teletext. | The selected teletext page appears. |

**Note**
Correct FASTEXT operation depends on the necessary signals sent from the TV station.



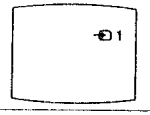


## How to view the video input picture

You can view the picture of video equipment connected to the input terminals by selecting the input mode.

**Operation**

| Action | Result |
|---|---|
| Press repeatedly to select the desired input. |  Symbol for the selected input appears. (See the table below.) |
| To return to the TV mode, press the button. | |

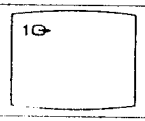
**Input modes**

| Symbol | Result |
|---|---|
| 1 | Audio/video input through the 1 connector. |
| | RGB input through the 1 connector. |
| 2 | Audio/video input through the 2/ connector. |
| 2 | S video input (from a VTR equipped with an S video output) through the 2/ connector. |
| 3 | Audio/video input through and jacks on the front. |
| You can also select the input mode using the P button on the TV. In this case, first select and then press +/– buttons to select the input. | |

## How to select the Output

The 2/ connector outputs four kinds of audio/video signals. You have to select one of them as follows.

**Operation**

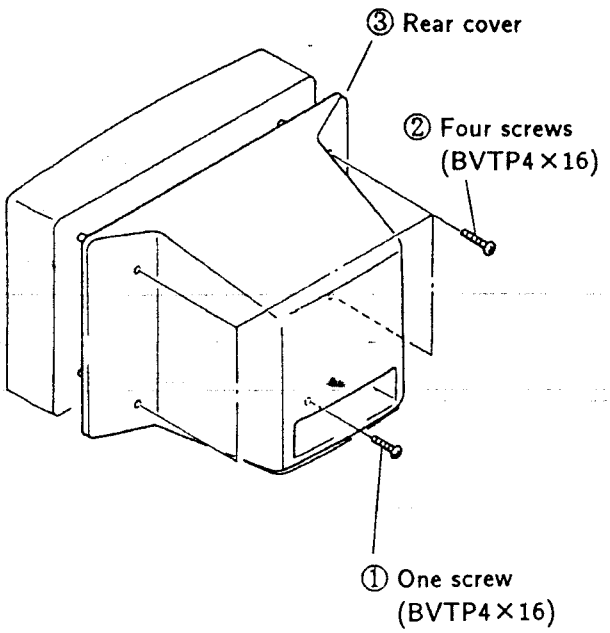
| Action | Result |
|---|---|
| Press repeatedly to select the desired input. |  Symbol for the selected output appears. (See the table below.) |

**Output modes**

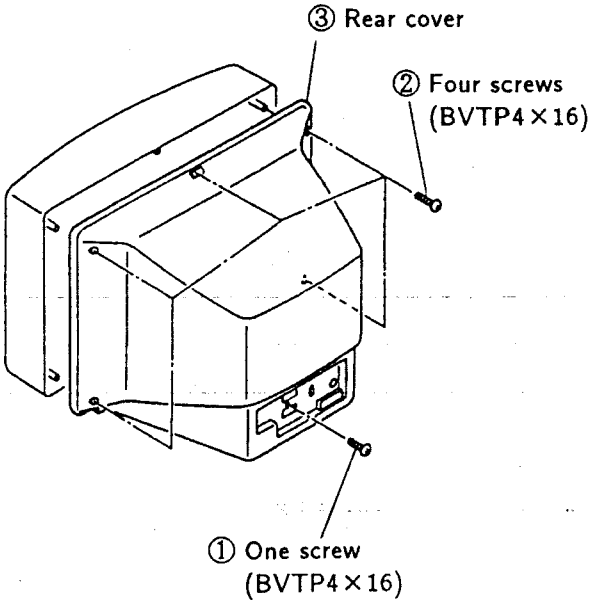
| Symbol | Output from |
|---|---|
| 1 | The audio/video signal from the 1 connector |
| 2 | The audio/video signal from the 2/ connector |
| 3 | The audio/video signal from the jacks. |
| TV | The audio/video signal from the aerial terminal. |

# SECTION 2
# DISASSEMBLY

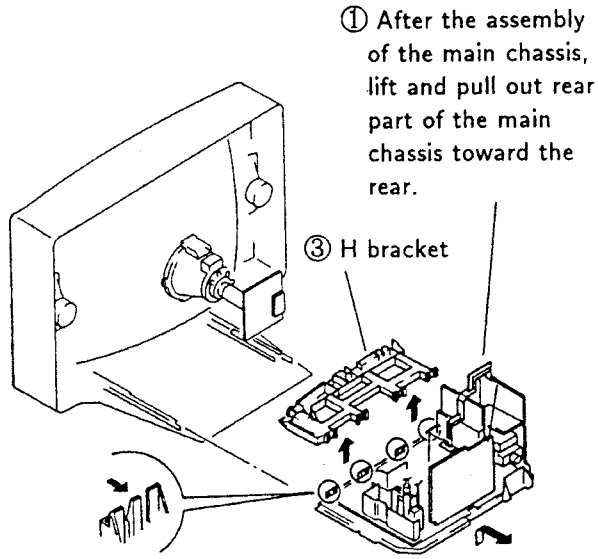
## 2-1-1. REAR COVER REMOVAL (21 inch)




## 2-1-2. REAR COVER REMOVAL (25inch, 29inch)

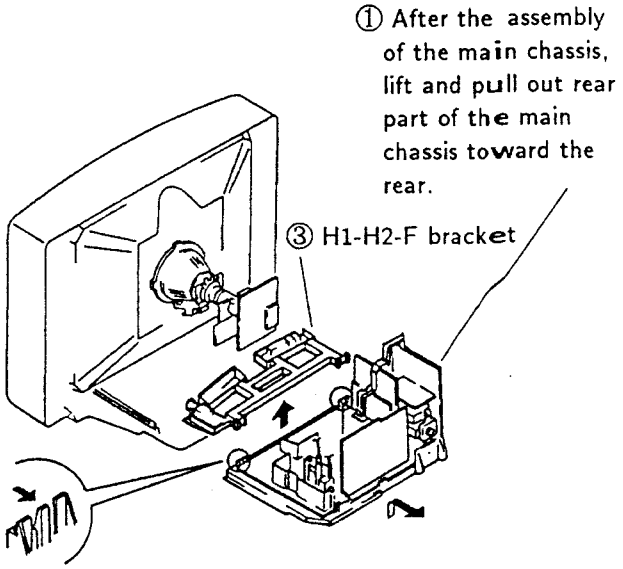



## 2-2-1. CHASSIS ASSEMBLY REMOVAL (21inch)



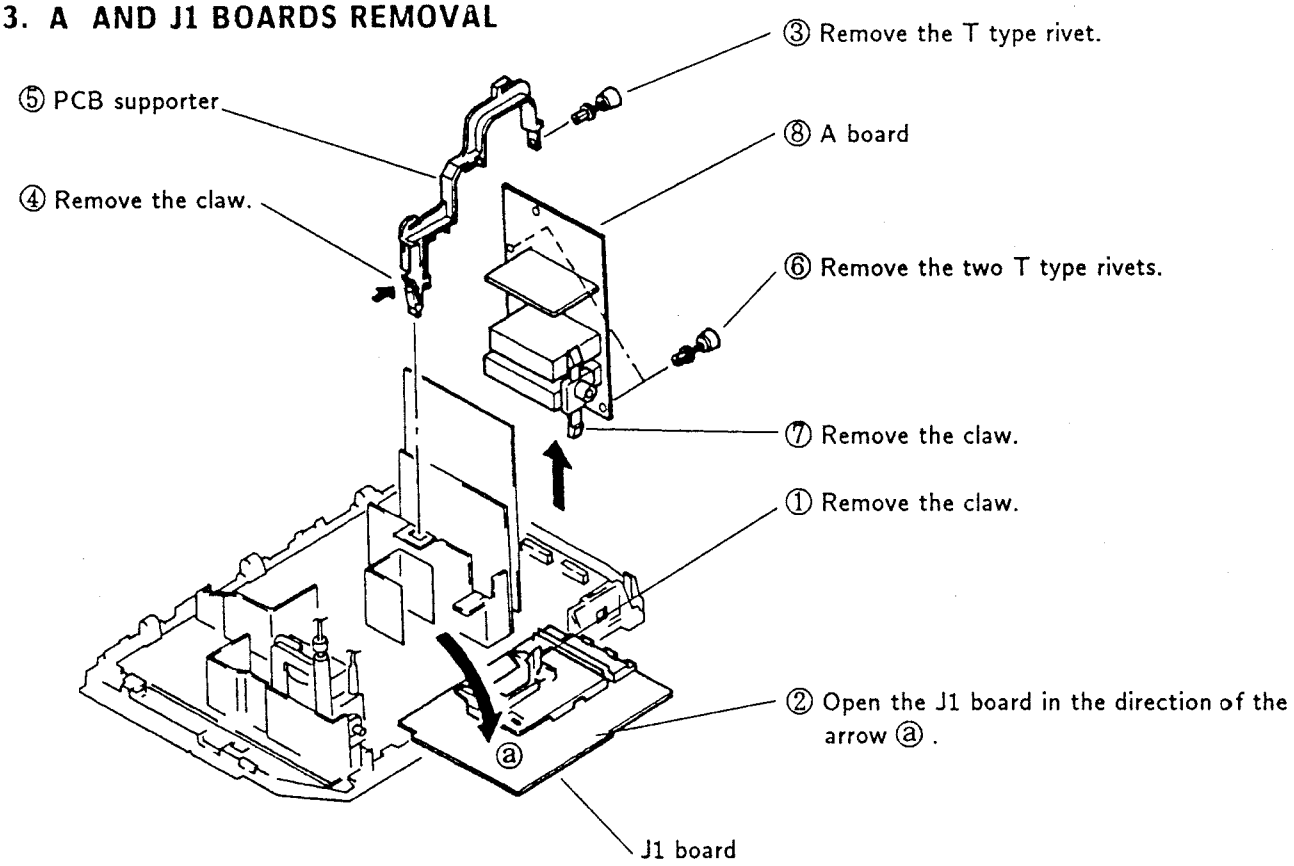

② Push the four claws of the main chassis in the direction of arrow and remove the H bracket upwards.

## 2-2-2. CHASSIS ASSEMBLY REMOVAL (25inch, 29inch)

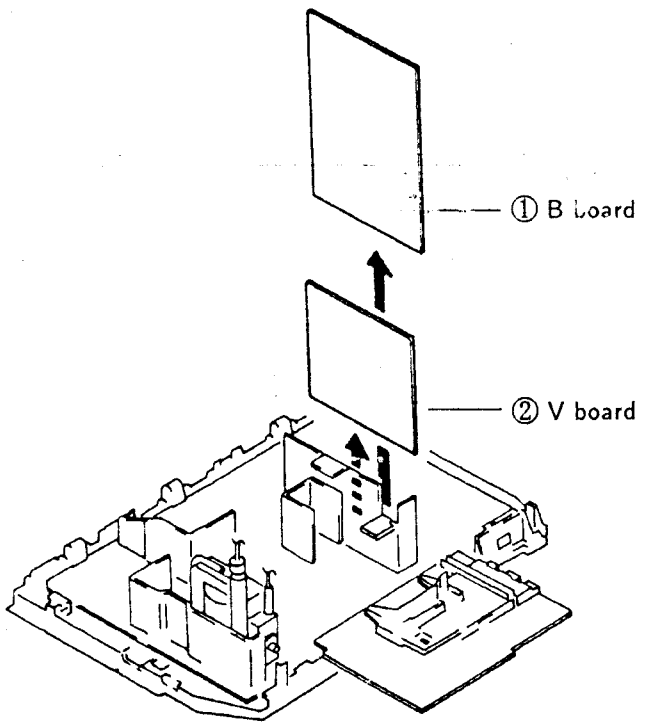



② Push the two claws of the main chassis in the direction of arrow and remove the H1-H2-F bracket upwards.

## 2-3. A AND J1 BOARDS REMOVAL


③ Remove the T type rivet.
⑤ PCB supporter
⑧ A board
④ Remove the claw.
⑥ Remove the two T type rivets.
⑦ Remove the claw.
① Remove the claw.
② Open the J1 board in the direction of the arrow ⓐ .
ⓐ
J1 board

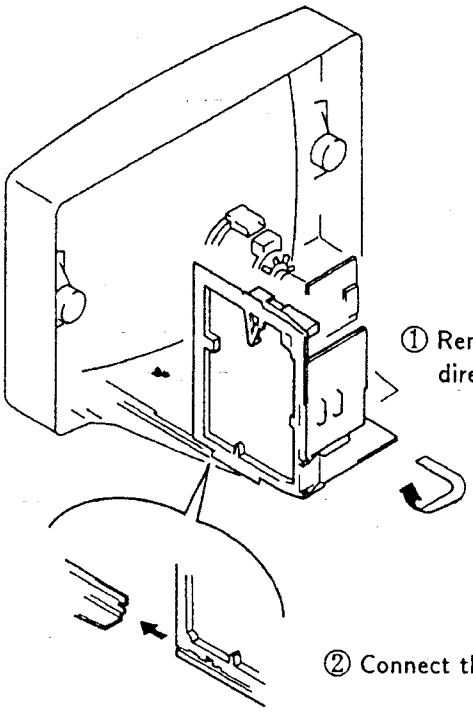
## 2-4. B AND V BOARDS REMOVAL




Note : 10 pin extension cable (S-0945-001-0)

## 2-5-1. SERVICE POSITION (21inch)

* Remove the bracket from the main chassis assembly and then perform the following servicing. (Refer to 2-2-1. CHASSIS ASSEMBLY REMOVAL.)

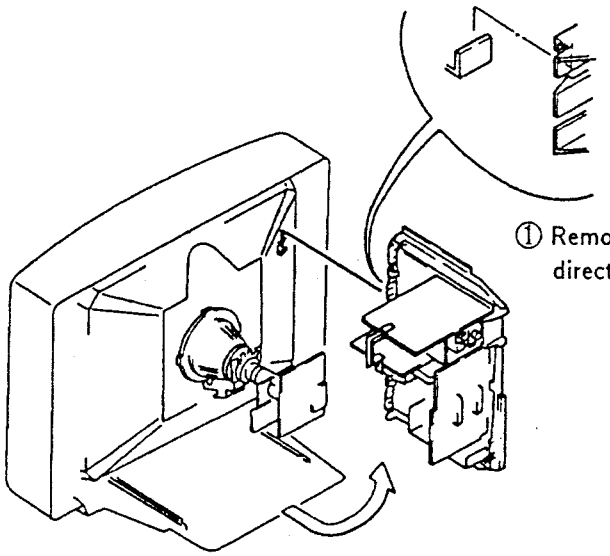


① Remove main chassis assembly in the direction of the arrow.

② Connect the main chassis assembly to the holder.

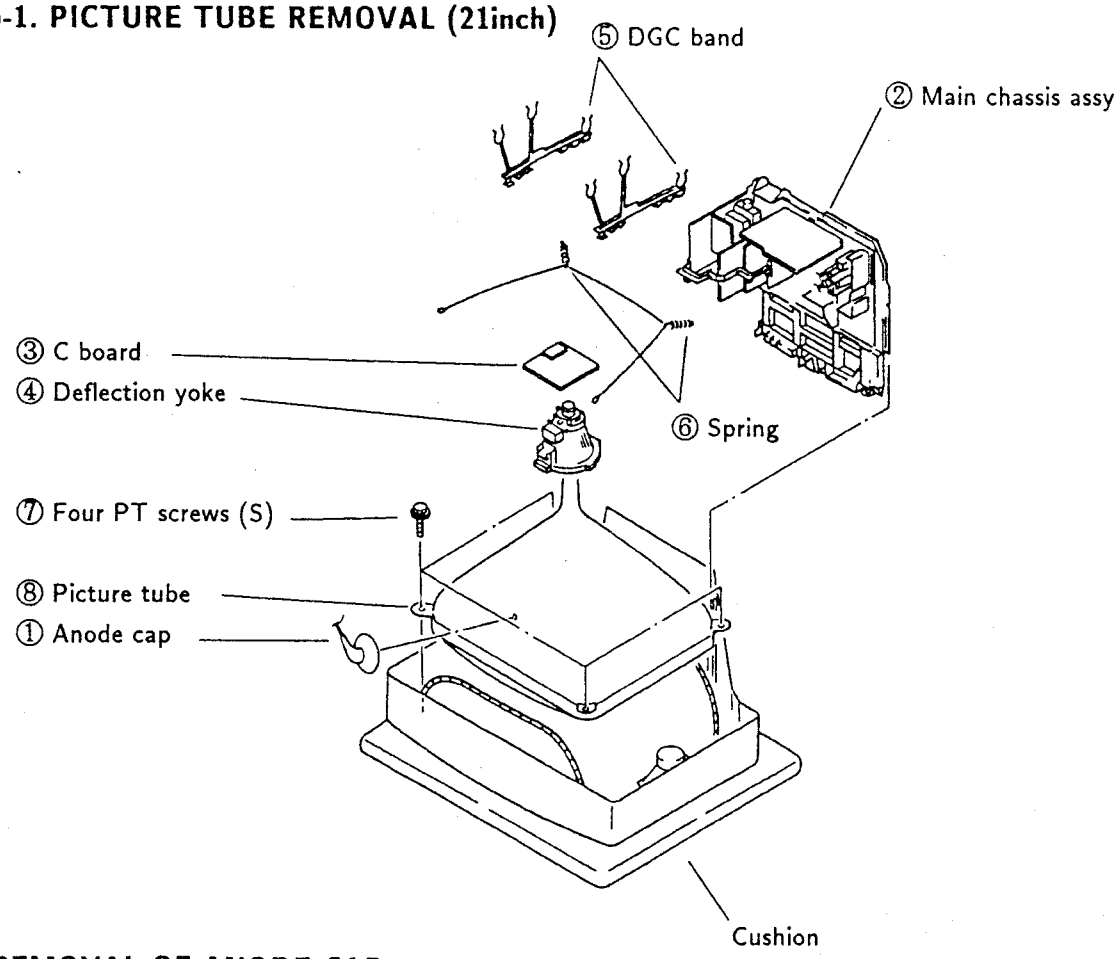
## 2-5-2. SERVICE POSITION (25inch, 29inch)

* Remove the connector bracket from the main chassis assembly and then perform the following servicing. (Refer to 2-2-2. CHASSIS ASSEMBLY REMOVAL.)



① Remove main chassis assembly in the direction of the arrow.

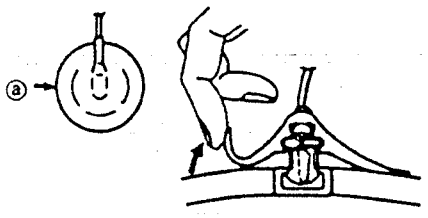
## 2-6-1. PICTURE TUBE REMOVAL (21inch)



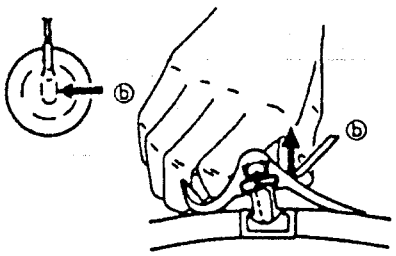

### • REMOVAL OF ANODE-CAP

NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT chield or carbon painted on the CRT, after removing the anode.

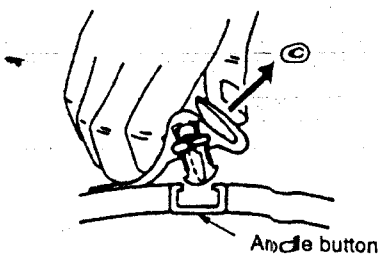
#### • REMOVING PROCEDURES




① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.




② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.



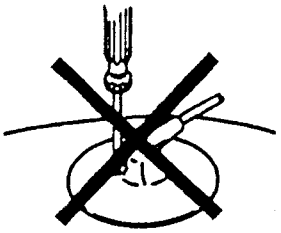

③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

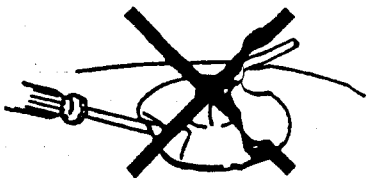
#### • HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with sharp shaped material!

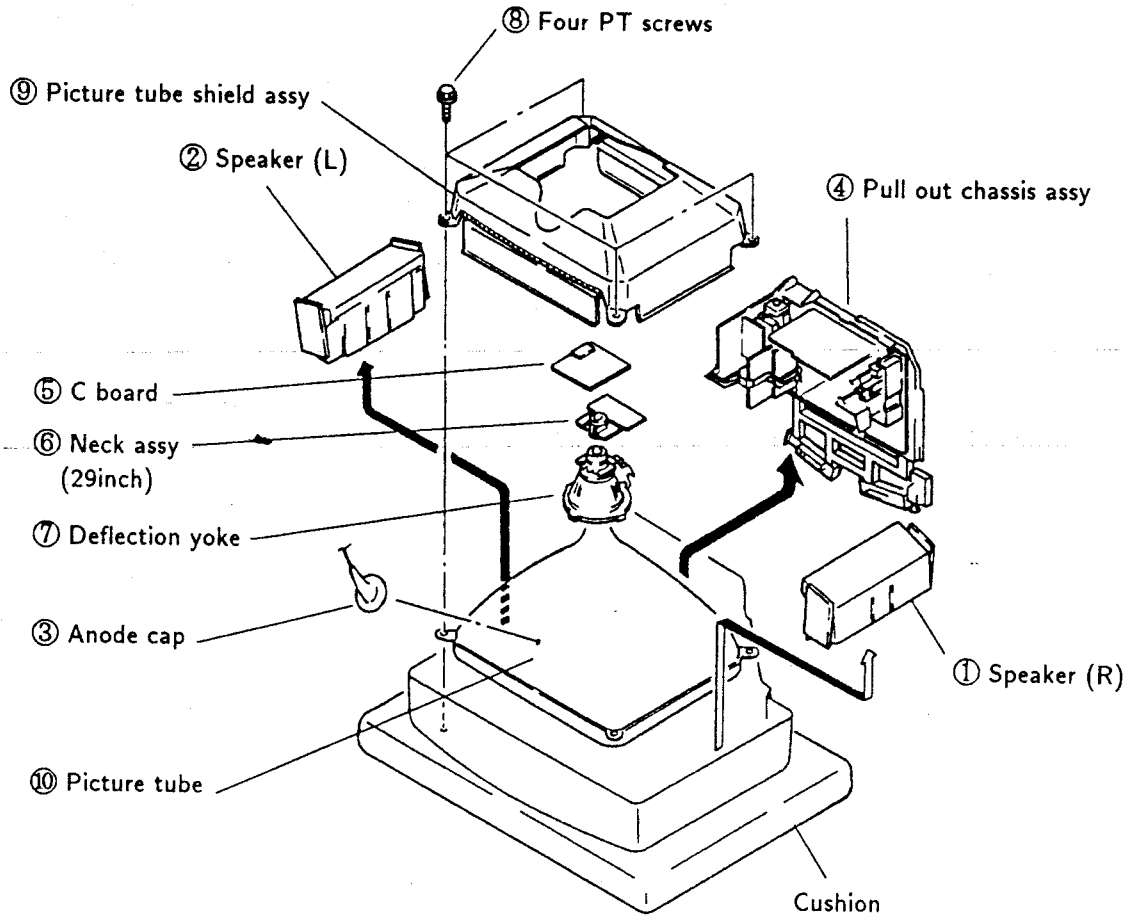
② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.

③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.



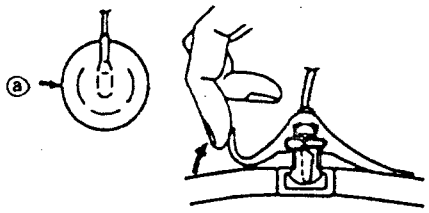


## 2-6-2. PICTURE TUBE REMOVAL (25inch, 29inch)

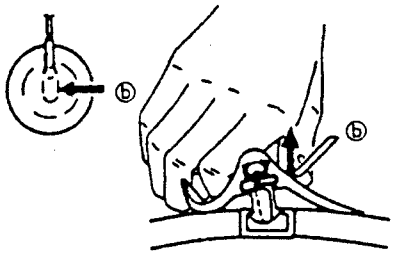



### • REMOVAL OF ANODE-CAP

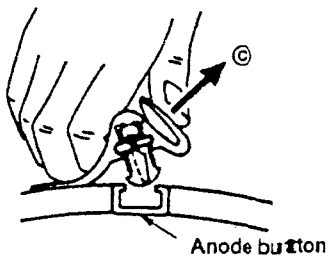
#### • REMOVING PROCEDURES




① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.




② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.



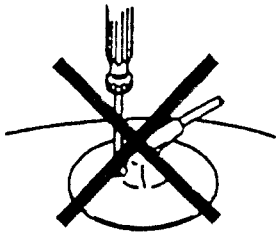

③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

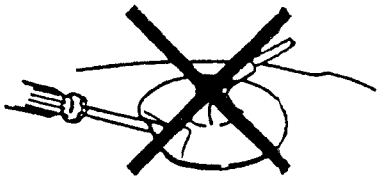
#### • HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with sharp shaped material!

② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.

③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.





# SECTION 3
# SET-UP ADJUSTMENTS

● The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

● These adjustments should be performed with rated power supply voltage unless otherwise noted.

The controls and switch below should be set as follows unless otherwise noted :

◑ CONTRASTcontrol ..... 80%(or Normal by commander)

☼ BRIGHTNESS control ..... 50%

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. Focus
4. Screen (G 2) and White Balance

**Note:** Test Equipment Required:

1. Color bar/Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter
5. Oscilloscope

**Preparation: (21 inch, 25 inch)**

● Set the side of the unit with the PICTUE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.

● Turn the power switch for the unit ON and erase the magnetic force using a degausser..

## 3-1. BEAM LANDING

Demagnetize with a degausser

1. Input a raster signal with the pattern generator.
   CONTRAST, BRIGHTNESS } normal
2. Turn the raster signal of the pattern generator to red.
3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides evenly. (Fig.3-1 - 3-3)
4. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig.3-1)
5. Switch over the raster signal to blue and blue and confirm the condition.
6. When the position of the deflection yoke is determined,tighten it with a deflection yoke mounting screw.
7. When landing at the corner is not right, adjust by using the disk magnets. (Fig.3-4)

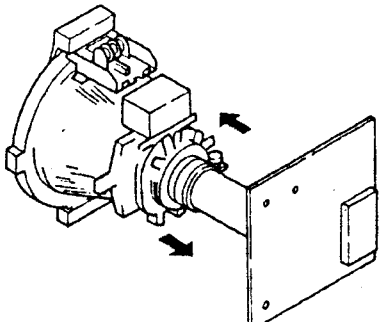


Fig.3-1

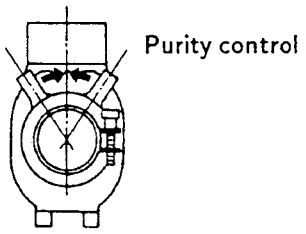



Fig.3-2

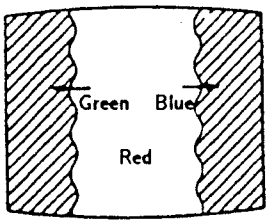



Fig.3-3

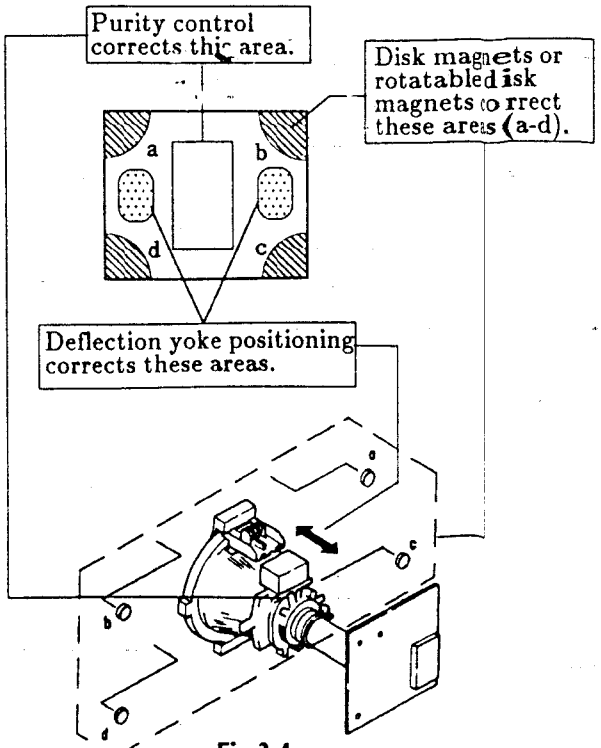


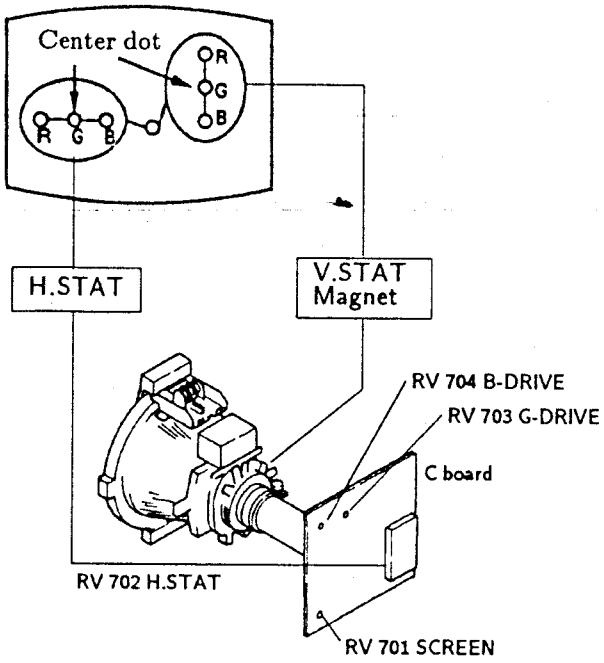

Fig.3-4

## 3-2. CONVERGENCE

**Preparation:**

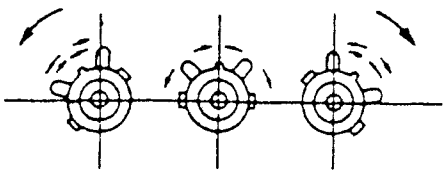
- Before starting, perform FOCUS, H.SIZE, and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.

**(1) Horizontal and Vertical Static Convergence**

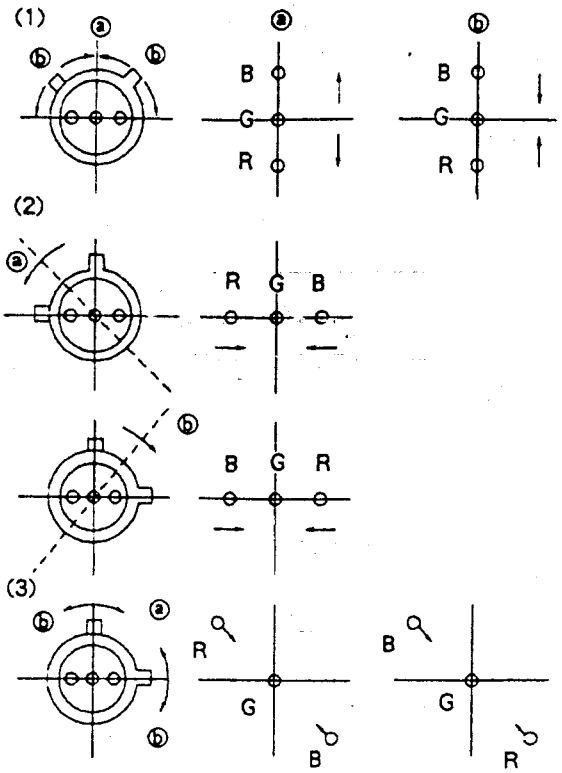



1. Adjust H.STAT VR to converge red, green and blue dots the in center of the screen.(Horizontal movement)
2. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
3. If the red, green and blue dots do not converge on the center of screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)

- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4.When the V.STAT magnet is moved in the direction of arrow ⓐ and ⓑ, red, green and blue dots move as shown below.



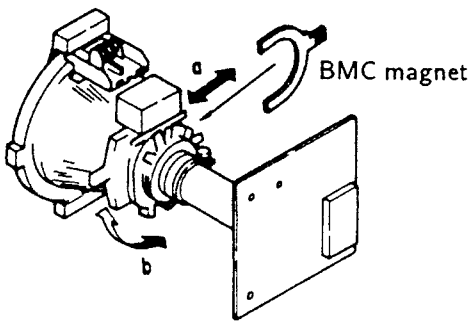

(KV-21 inch only)

If the red and blue dot do not converge with green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H.static convergence.

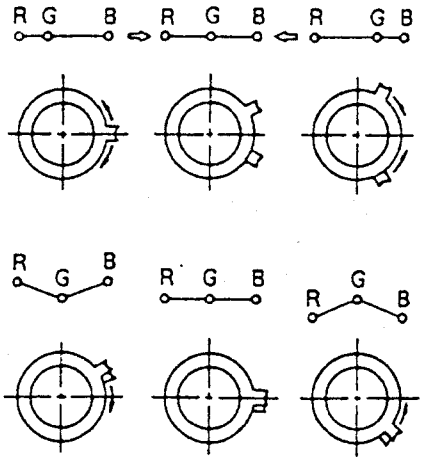
Rotate BMC magnet (b) to correct insufficient V.static convergence.

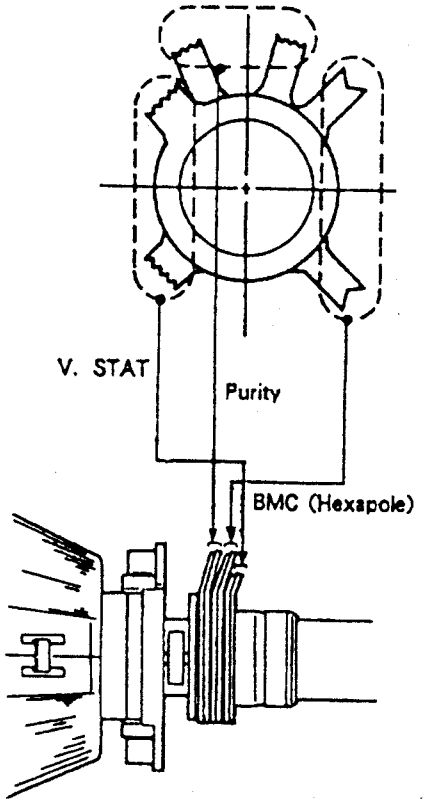
In either case, repeat Beam Landing Adjustment.



( KV-25 inch only)

- Operation of BMC (Hexapole) Magnet



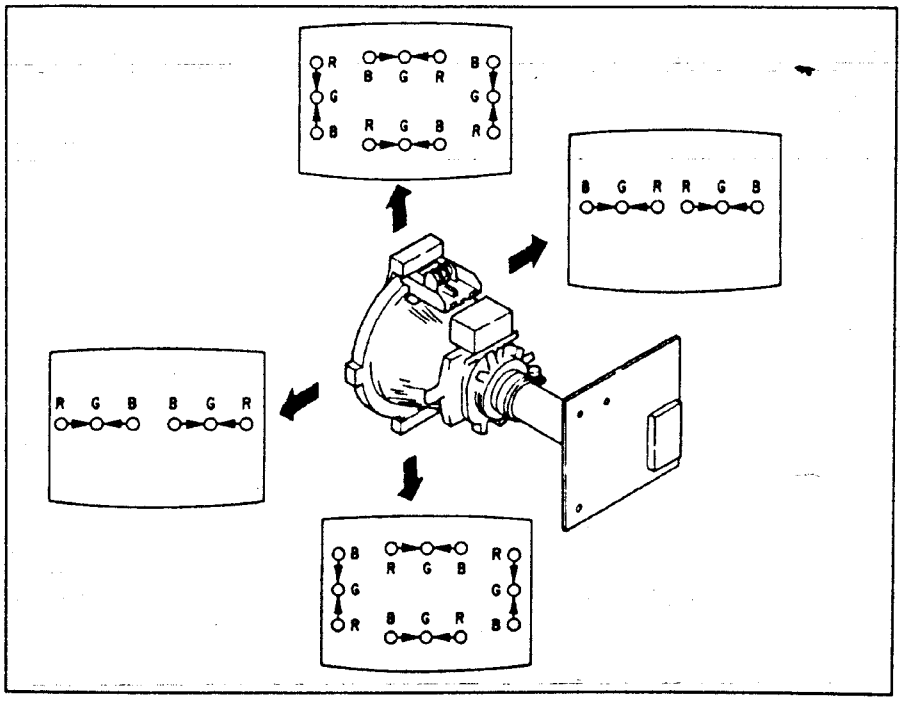

- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
  Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

**(2)Dynamic Convergence Adjustment**

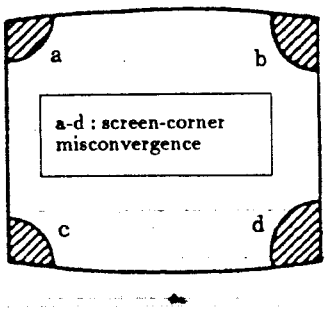
**Preparation:**

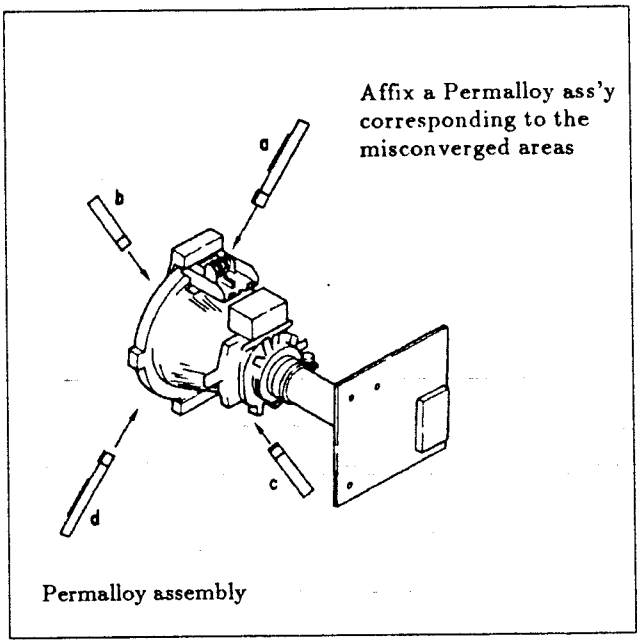
● Before starting perform Horizontal and Vertical static convergence Adjustment.

1. Slightly loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergenceas shown below.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.



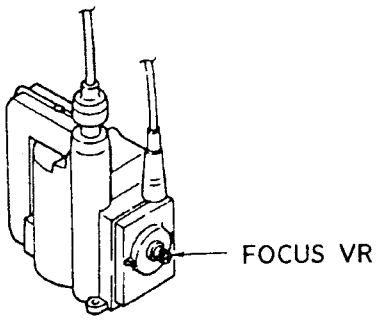
### (3) Screen-corner Convergence



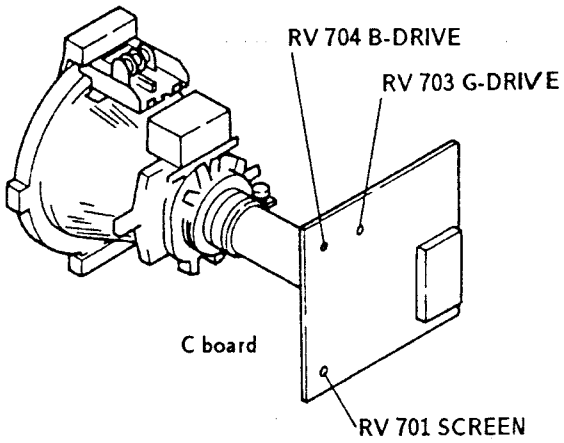




## 3-3. FOCUS

Adjust FOCUS so that the whole screen is in best focus.




## 3-4. SCREEN (G 2) and WHITE BALANCE




Screen (G 2) Setting

1. Input dot signal from the pattern generator.
2. Set the picture BRIGHTNESS control to minimum level.
3. Apply 170 V DC to the cathodes of R,G and B from an external power power source.
4. While watching the picture, adjust the G 2 volume (RV701) immediately before fly-back line disappears.

White Balance Adjustment

1. Input all-white signal from the pattern generator.
2. Adjust the BRIGHTNESS and COLOR controls to the standard level.
3. Adjust the following using RV 704 (B DRIVE) and RV 703 (G DRIVE)

In the following adjustments, the CONTRAST, COLOR and BRIGHTNESS controls are set to normal unless otherwise specified.

**Preparations : (29 inch)**

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

## 3-5. BEAM LANDING

1. Input the white signal with the pattern generator.
   Contrast, Bightness } normal
2. Position neck ass'y as shown in Fig 3-6.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.
   (See Figures 3-5 through 3-7.)
5. Move the deflection yoke forward and adjust so that entire screen is red. (See Figure 3-5.)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
   (See Figure 3-8.)

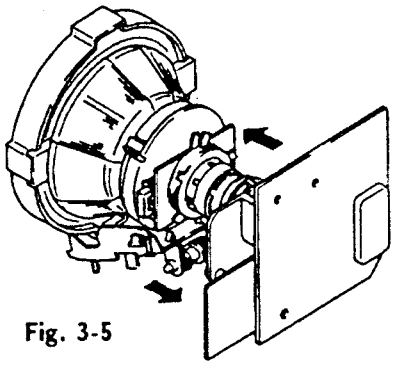


Fig. 3-5

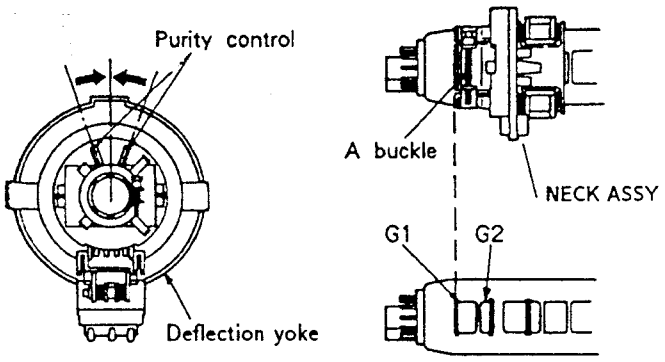



Fig. 3-6

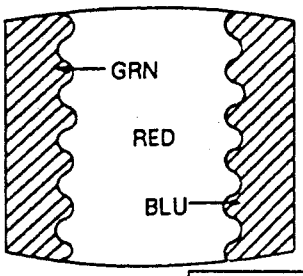



Fig. 3-7

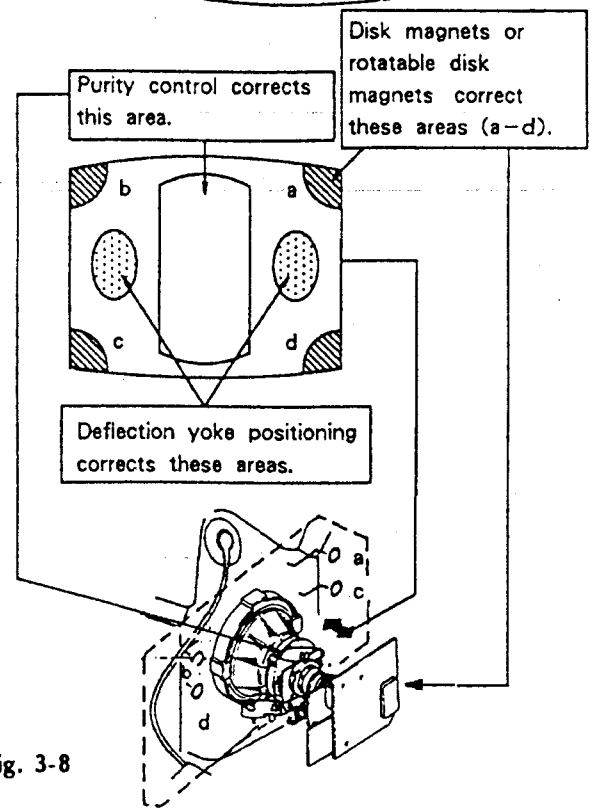
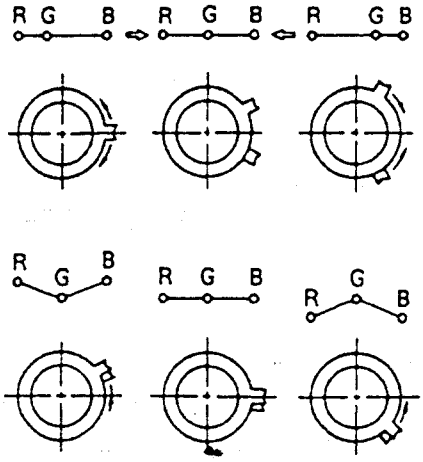
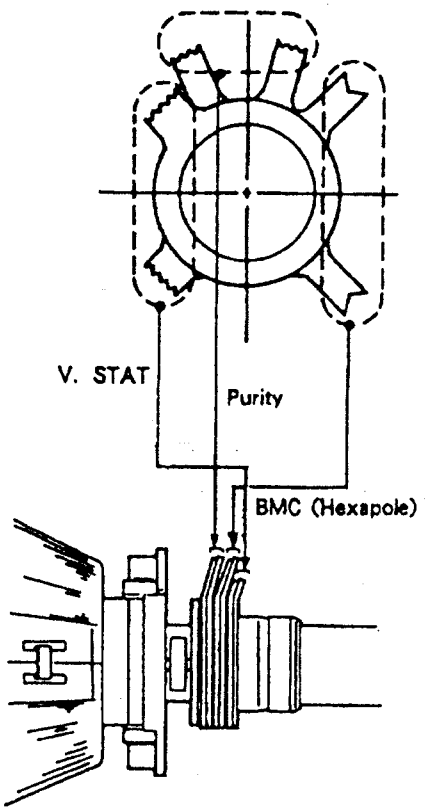



Fig. 3-8

- Operation of BMC (Hexapole) Magnet



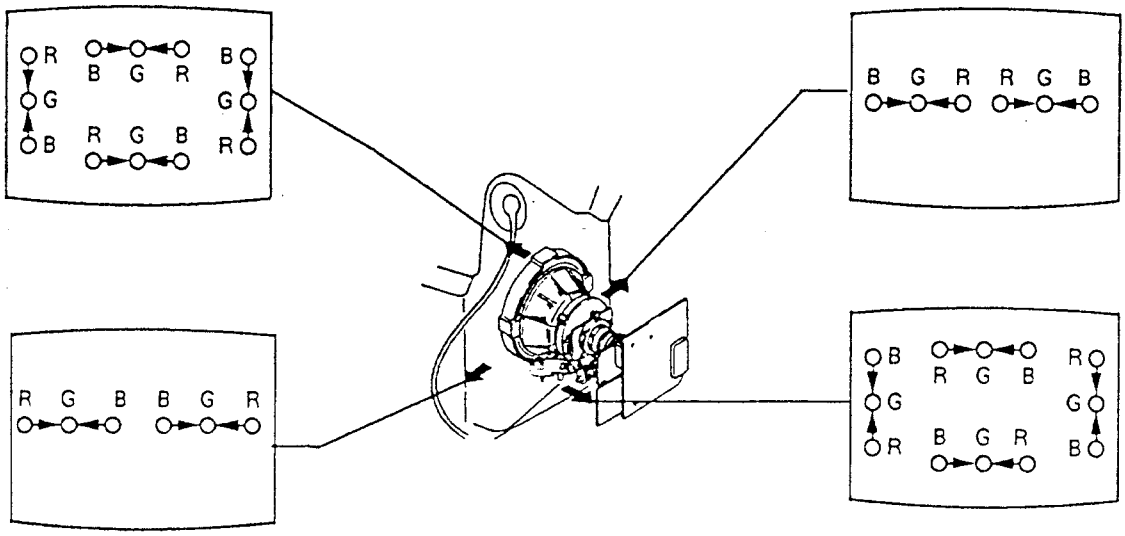

- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
  Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

**(2) Dynamic convergence adjustment**

**Preparations :**

Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the defelection yoke spacer.

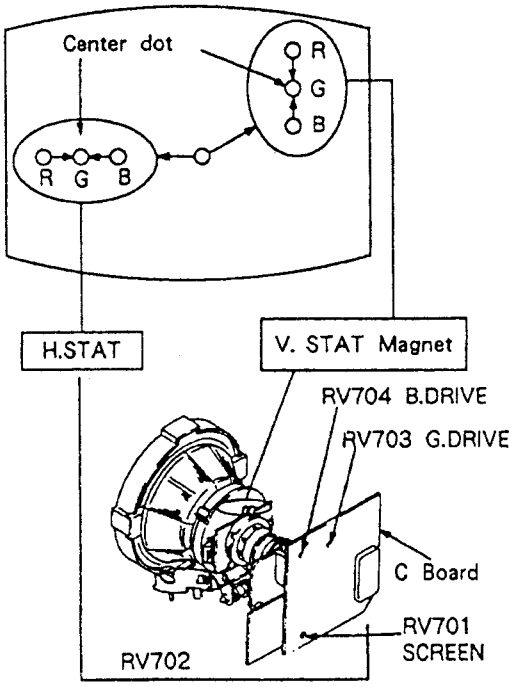


## 3-6. CONVERGENCE

**Preparations :**

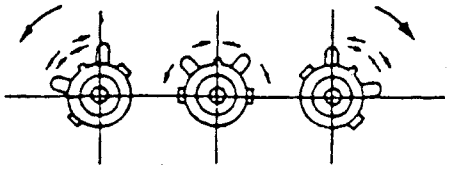
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

### (1) Horizontal and vertical static convergence

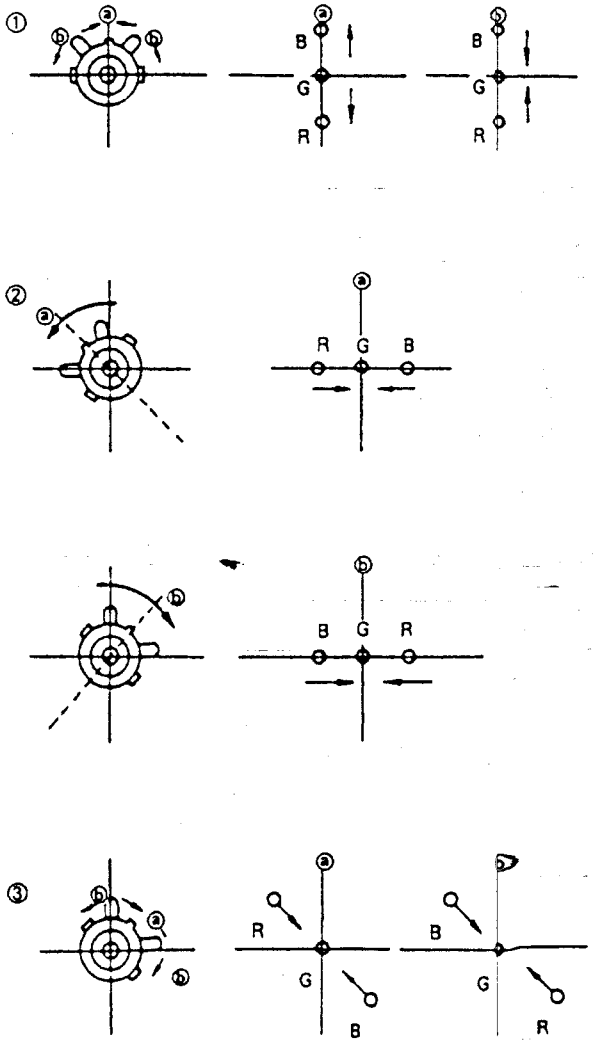



1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.
   (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

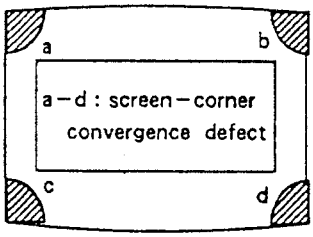
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



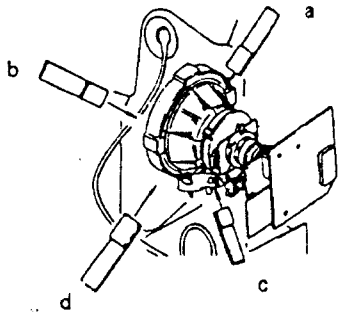
4. If the V.STAT magnet is moved in the direction of the ⓐ and ⓑ arrows, the red, green, and blue points move as shown below.



(3) Screen corner convergence



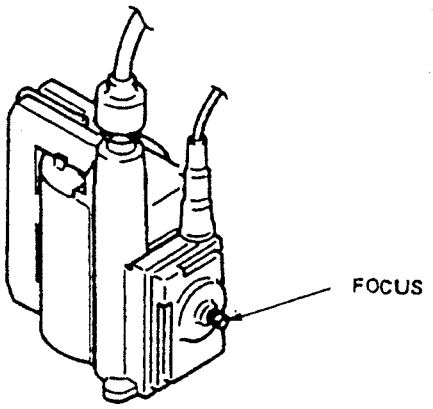
Install the permalloy assembly for the section with faulty.




Permalloy

## 3-7. FOCUS

Adjust the focus to optimize the screen.




## 3-8. WHITE BALANCE

**[ Screen G2 setting ]**

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its lowest level.
3. Apply 170V DC to the R, G, and B cathodes with an external power supply.
4. While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

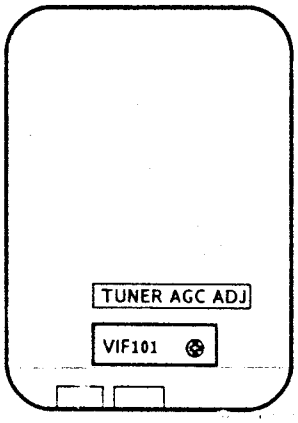
**[ White balance adjustment ]**

1. Input an all-white signal from the pattern generator.
2. Set the picture brightness and color controls to their normal levels.
3. Use the RV704 (B Drive) and RV703 (G Drive) to adjust white balance.

In the adjustments below, have the picture color and brightness settings at their normal levels unless there is a specific instruction to the contrary.

# SECTION 4
# CIRCUIT ADJUSTMENTS

## 4-1. A BOARD ADJUSTMENTS

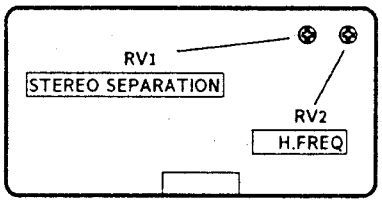



A BOARD (COMPONENT SIDE)

### TUNER AGC ADJUSTMENT (AGC VR)

1. Align with an appropriate signal between stations.
2. Adjust AGC VR so that snow noise and cross modulation just disappear from the picture.

### IFG5.5S SIF




IFG5.5S SIF -component side-

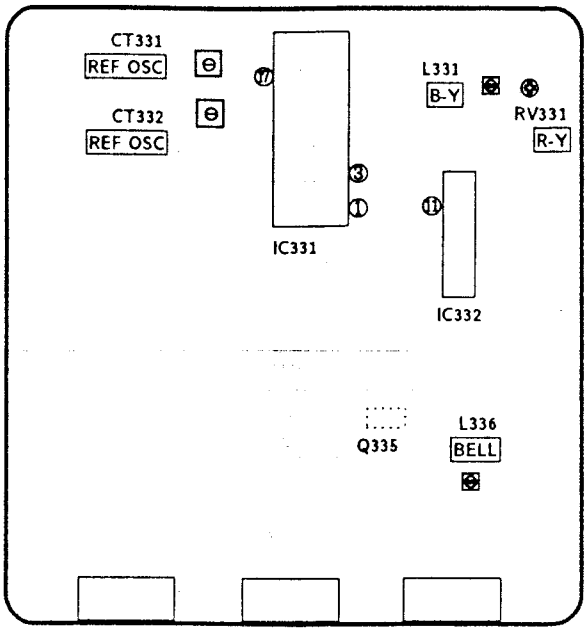
### STEREO SEPALATION ADJUSTMENT (RV1)

1. Input stereo signals. (L-CH 400Hz, R-CH 1KHz)
2. Check the stereo indicator.
3. Connect on oscilloscope to pin⑧ (CH1) of CN1 through band pass filter of 1KHz
4. Adjust RV1 so that 1KHz voltage goes down to the minmum.

### H FREQ (RV2)

1. Input a PAL COLOR BAR signal, then connect a jumper between pin⑫ IC4 and GND.
2. Connect a frequency counter to pin④ IFG5.5S (HP) of CN1 through a probe of 10 : 1.
3. Adjust RV2 (H.FREQ) 15.625±50Hz.
4. After adjustment, remove the jamper.

## 4-2. B BOARD ADJUSTMENTS




B BOARD (COMPONENT SIDE)

### REFERENCE OSCILLATOR ADJUSTMENT (CT332 8.8MHz)

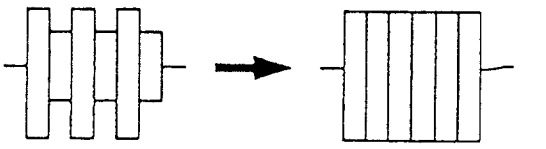
1. Input a PAL color bar signal.
2. Ground pin ⑰ of the IC331.
3. Adjust CT332 to obtain synchronization.

### REFERENCE OSCILLATOR ADJUSTMENT (CT331 7.16MHz)

1. Input an NTSC358 color bar signal.
2. Ground pin ⑰ of IC331.
3. Adjust the CT331 to obtain synchronization.
4. Remove the jumper grounding pin ⑰ of IC331.

### BELL FILTER ADJUSTMENT (L336)

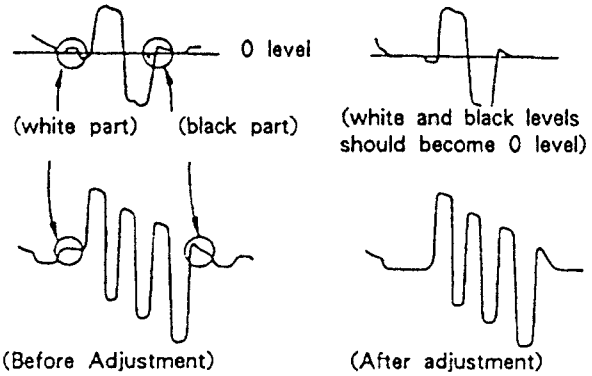
1. Input a SECAM color bar signal.
2. Connect the oscilloscope to the emitter of Q335.
3. Adjust L336 so that the waveform is flat.



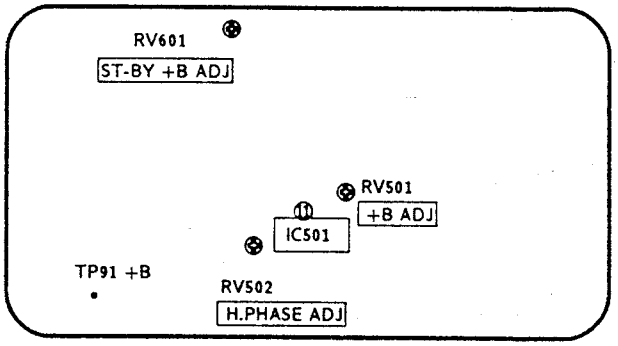
<Before Adjustment> <After Adjustment>

## DISCRIMINATION ADJUSTMENTS (RV331 and L331)

1. Input a SECAM color bar signal.
2. Connect the oscilloscope to pin ① of IC331.
3. Adjust RV331 until the white and black sections of the waveform at pin ① are at the 0 level.
   Connect the oscilloscope to pin ③ of IC331.
4. Adjust L331 until the white and black sections of the waveform at pin ③ are at the 0 level.




## 4-3. D BOARD ADJUSTMENTS




D BOARD (COMPONENT SIDE)

### +B ADJUSTMENT (RV501)

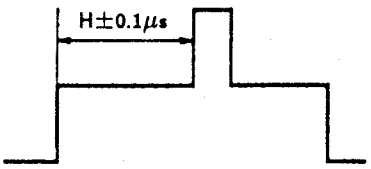
1. Connect the digital multimeter to TP91.
2. Adjust RV501 to obtain 135±0.2V.

### ST-BY +B ADJUSTMENT (RV601)

1. Put the system into ⏻ standby mode (remote commander).
2. Connect the digital multimeter to TP91.
3. Adjust RV601 to obtain 135±3V.
4. Take the system out of ⏻ standby mode (remote commander).

### H.PHASE ADJUSTMENT (RV502)

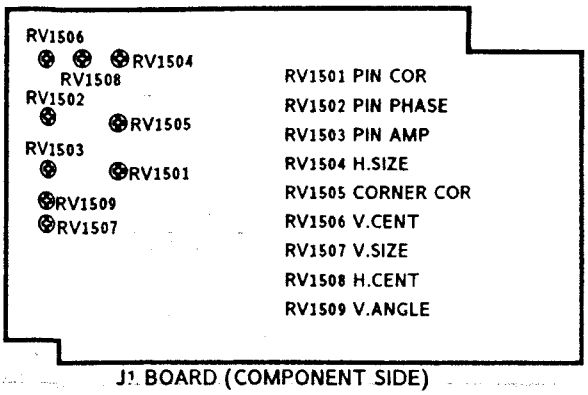
1. Input a PAL color bar signal.
2. Set the picture and brightness controls to their normal levels.
3. Set RV1508 (H.CENT) to its mechanical center.
4. Connect the oscilloscope to pin ⑪ (SCP) of IC 501.
5. Rotate RV502 to adjust to H±0.1μs.




Standard of H. PHASE

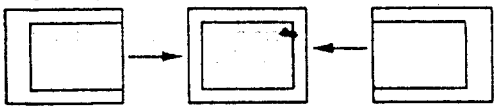
| Model Size | H |
|---|---|
| 21″ | 5.6μs |
| 25″ | 5.1μs |
| 29″ | 5.5μs |

## 4-4. J1 BOARD ADJUSTMENTS

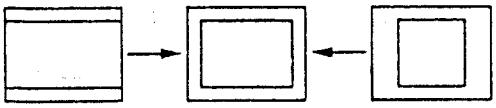



J1 BOARD (COMPONENT SIDE)

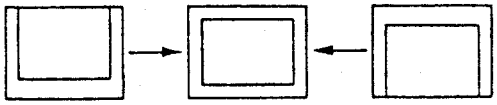
RV1508
H. CENT (HORIZONTAL CENTER)



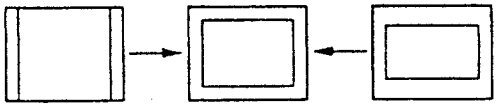
RV1504
H. SIZE (HORIZONTAL SIZE)



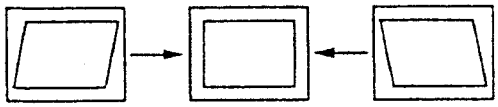
RV1506
V. CENT (VERTICAL CENTER)



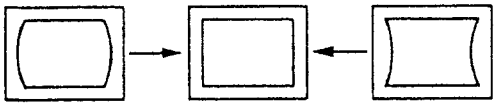
RV1507
V. SIZE (VERTICAL SIZE)



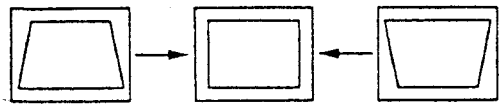
RV1509
V. ANGLE (VERTICAL ANGLE)



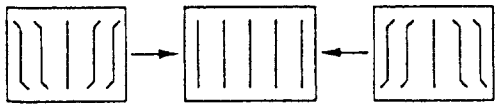
RV1503
PIN AMP (PINCUSHION AMPLIFIER)



RV1502
PIN PHASE (PINCUSHION PHASE)

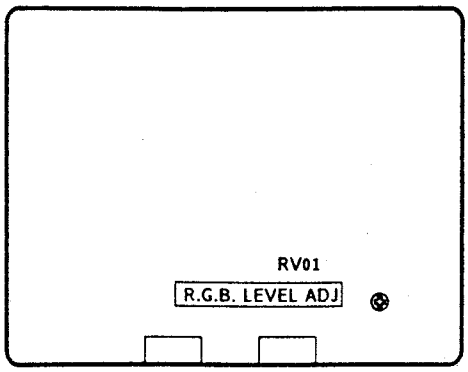


RV1501
PIN. COR (PINCUSHION CORRECT)



RV1505
CORNER COR (CORNER CORRECT)

## 4-5. V BOARD ADJUSTMENT




V BOARD (COMPONENT SIDE)

### RGB LEVEL ADJUSTMENT (RV01)

1. Maximize the picture setting.
2. Adjust RV01 so that the RGB output is 0.75V.

## 4-6. SECONDARY ADJUSTMENTS

### SUB BRIGHTNESS ADJUSTMENT

1. Set the system to receive a test pattern.
2. Press → • ← on the remote commander to put the system into normal mode.
3. Switch off the power.
4. While depressing the adjusting buttons + and − simultaneusly, turn on the power. (SUB mode is obtained)
5. Minimize the ◑ contrast setting.
6. Adjust the ☼ brightness control so that the gray scale 0 IRE section is cut off completely and the 20 IRE section is barely glowing.
7. Depress the ◇ (store) button of the remote commander.
   (SUB mode is released)

If there is no test color pattern

1. Set the system to receive a color pattern.
2. Press → • ← on the remote commander to put the system into normal mode.
   Set the ◑ color to its normal state.

3-5. Steps are the same as above.

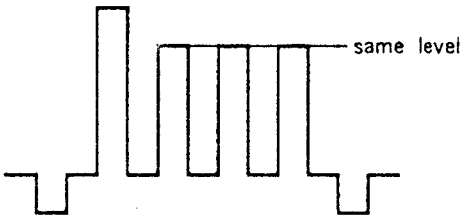
6. Since 20 IRE is nearly blue, adjust the ☼ brightness control so that the blue barely glows.

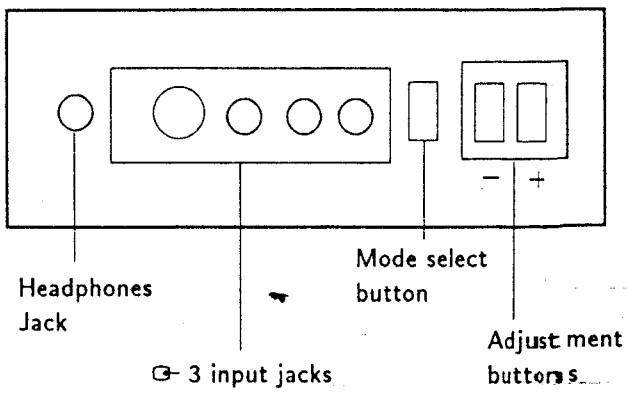
7. Same as step 7 above.

8. Press → • ← on the remote commander to put the system into normal mode.

### SUB COLOR ADJUSTMENT

1. Set the system to receive color bars.
2. Press → • ← on the remote commander to put the system into normal mode.
3. Cut off the power.
4. While depressing the adjustment buttons + and − simultaneusly, turn on the power. (SUB mode is obtained).
5. Adjust the color control so that the B out waveform (pin ⑤ of C board connector CNC72) is as shown in the figure below.
6. Depress the ◇ (store) button of the remote commander. (SUB mode is released)



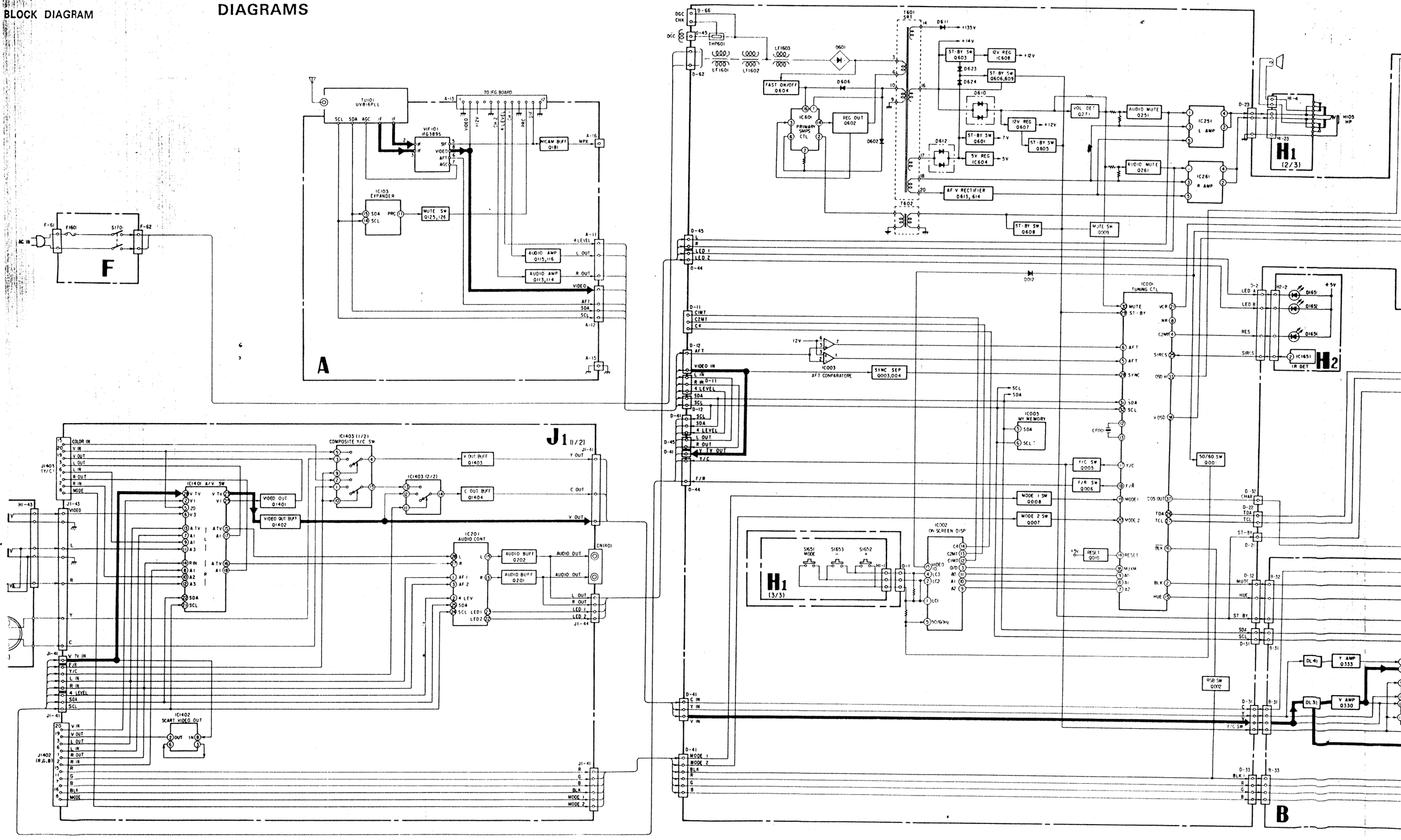



MEMO

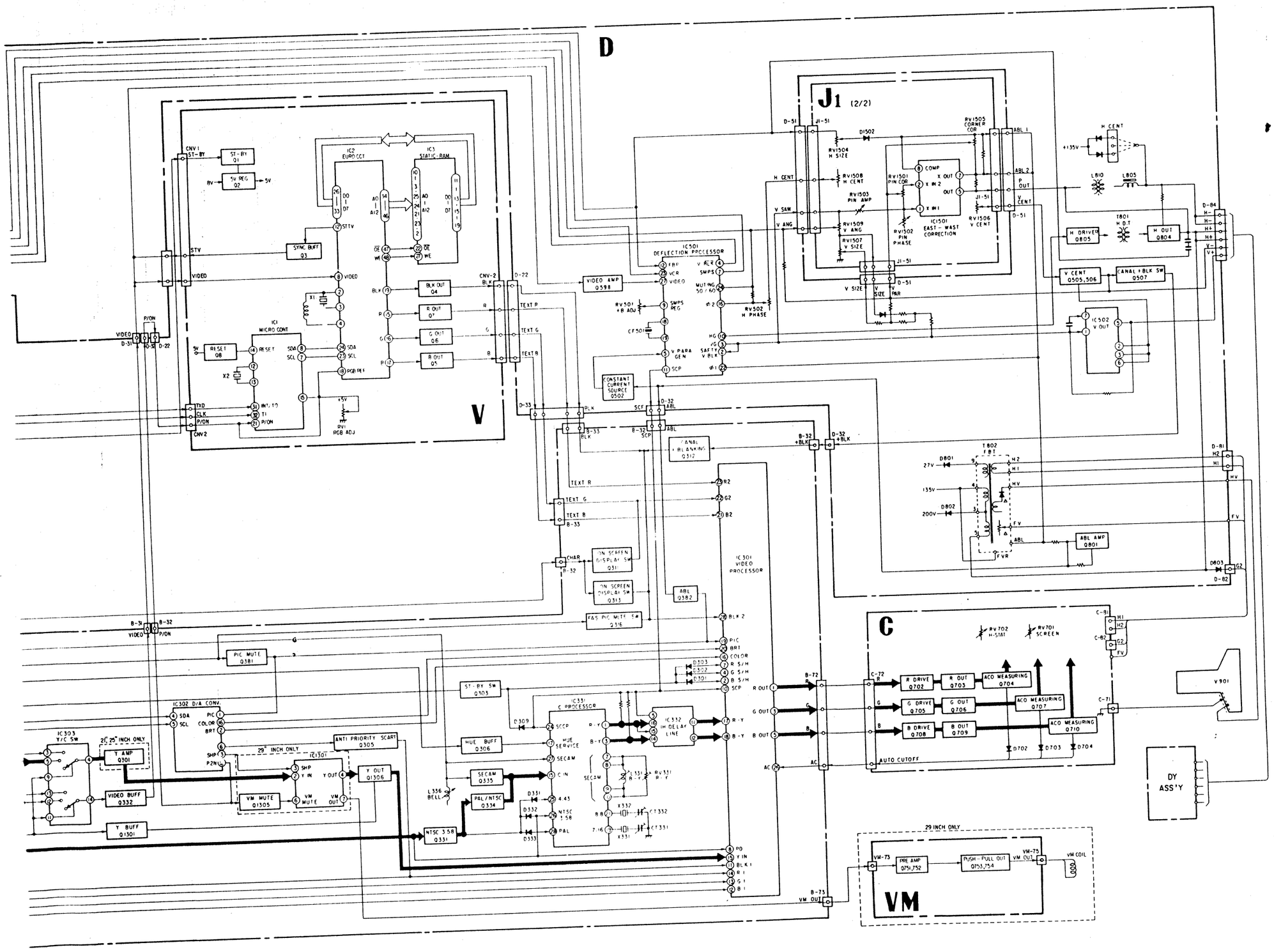
KV-C2161D/C2561D/C2961D
RM-816

# SECTION 5
# DIAGRAMS

## BLOCK DIAGRAM

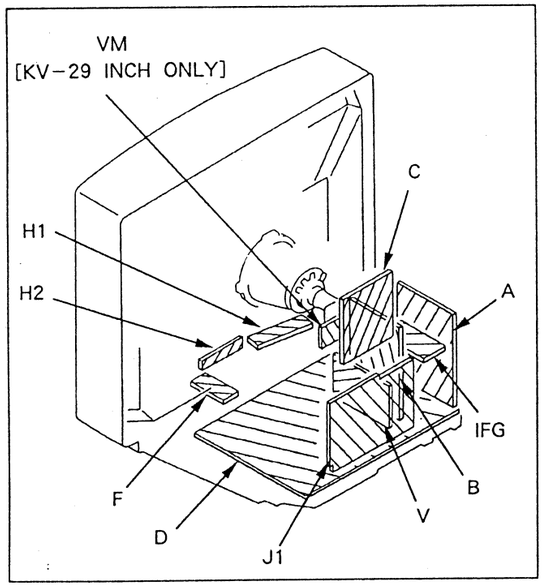


KV-C2161D/C2561D/C2961D
RM-816



KV-C2161D/C2561D/C2961D
RM-816

## 5-2. CIRCUIT BOARDS LOCATION




## 5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Reference information

| | | |
|---|---|---|
| RESISTOR | RN | : METAL FILM |
| | RC | : SOLID |
| | FPRD | : NONFLAMMABLE CARBON |
| | FUSE | : NONFLAMMABLE FUSIBLE |
| | RS | : NONFLAMMABLE METAL OXIDE |
| | RB | : NONFLAMMABLE CEMENT |
| | RW | : NONFLAMMABLE WIREWOUND |
| | ※ | : ADJUSTMENT RESISTOR |
| COIL | LF-8L | : MICRO INDUCTOR |
| CAPACITOR | TA | : TANTALUM |
| | PS | : STYROL |
| | PP | : POLYPROPYLENE |
| | PT | : MYLAR |
| | MPS | : METALIZED POLYESTER |
| | MPP | : METALIZED POLYPROPYLENE |
| | ALB | : BIPOLAR |
| | ALT | : HIGH TEMPERATURE |
| | ALR | : HIGH RIPPLE |

Note :

- All capacitors are in μF unless otherwise noted.
  pF : μμF 50WV or less are not indicated except for electrolytic.
- Indication of resistance, which dose not have one for rating electrical power, is as follows.

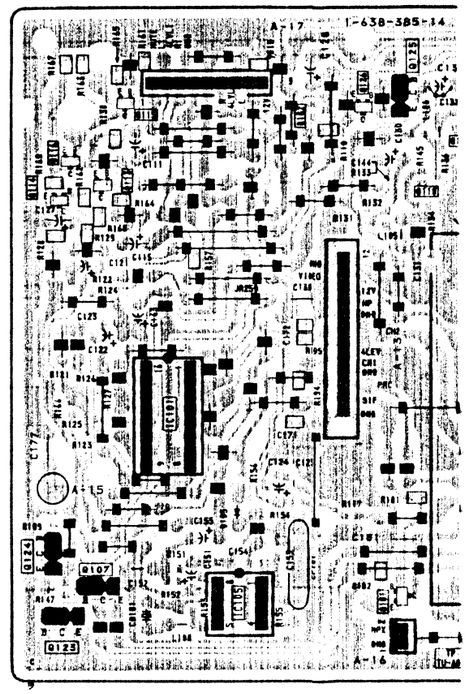
| |
|---|
| Pitch : 5mm<br>Rating electrical power : ¼W |

- Chip resistor is in 1/10W.
- All resistors are in ohms.
  kΩ = 1000Ω, MΩ = 1000KΩ
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation or adjustment for repair.
- All variable and adjustable resistors have charactristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10MΩ digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal produc-tion tolerances.
- : B + bus.
- : signal path.(RF)

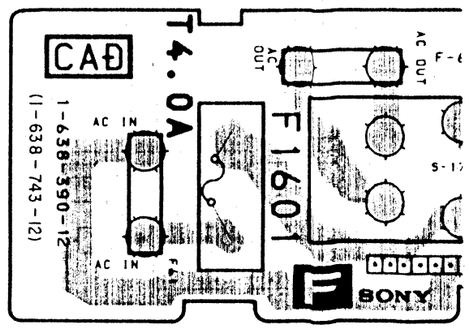
**Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.**

A [TUNER, SIF, VIF] F [AC IN, POWER SW

**—A Board—**

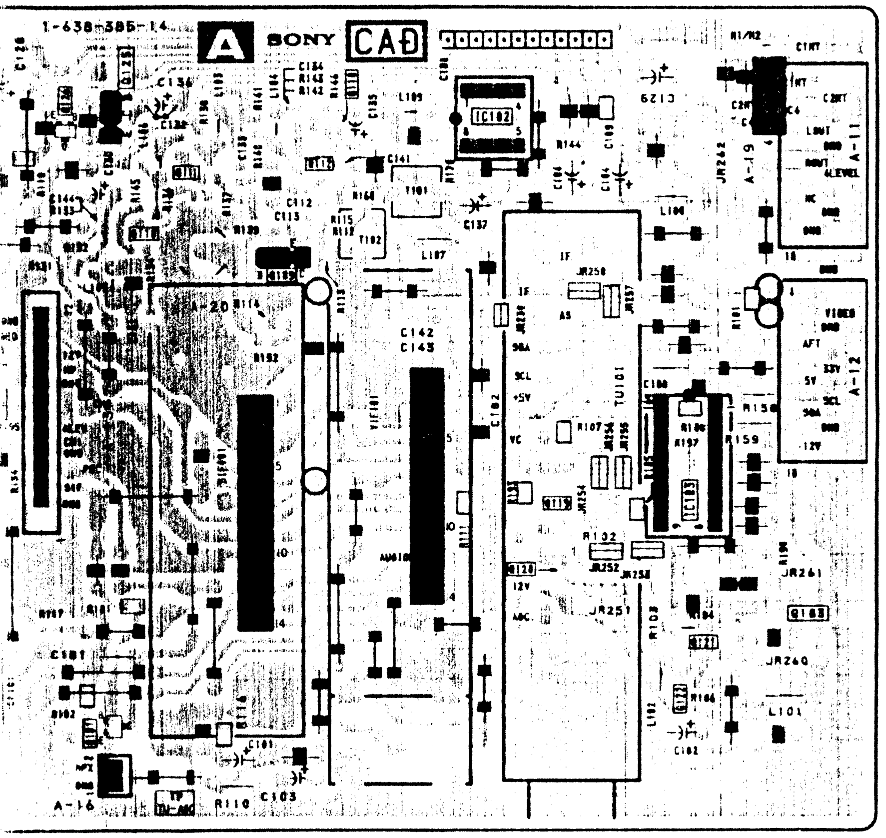


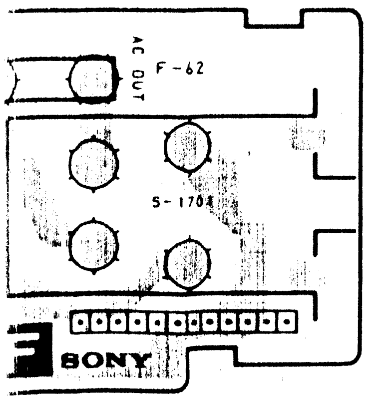
**—F Board—**



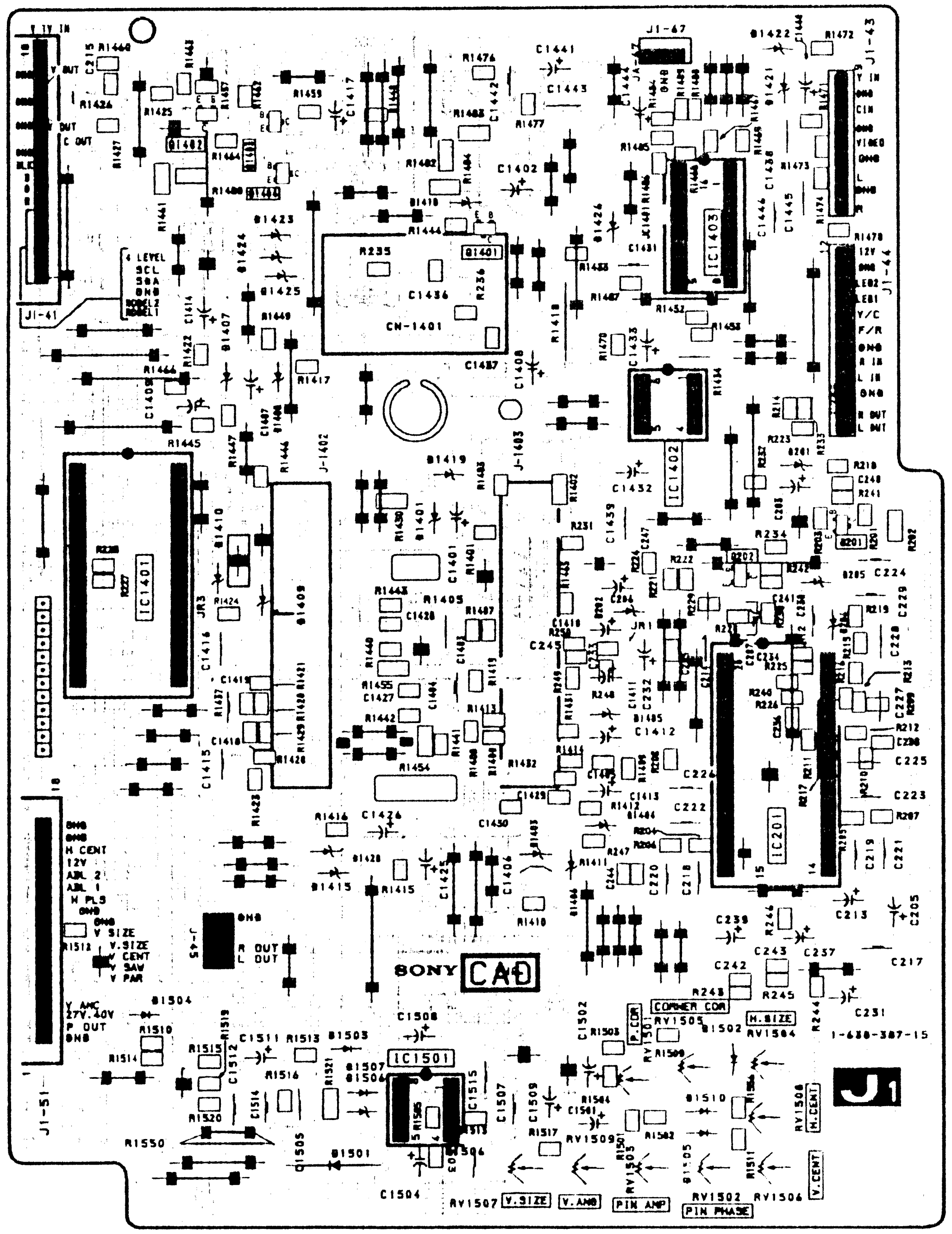
KV-C2161D/C2561D/C2961D
RM-816

[AC IN, POWER SW] **J1** [AUDIO CONTROL, AV INPUT, Y/C INPUT, SCART VIDEO OUT, EAST-WEST CORRECTION] **H1** [CONTROL SW, AV INPUT HEADPHONE] **H2** [SIRCS, RECEIVER, INDICATOR] **VM** [VM AMP]

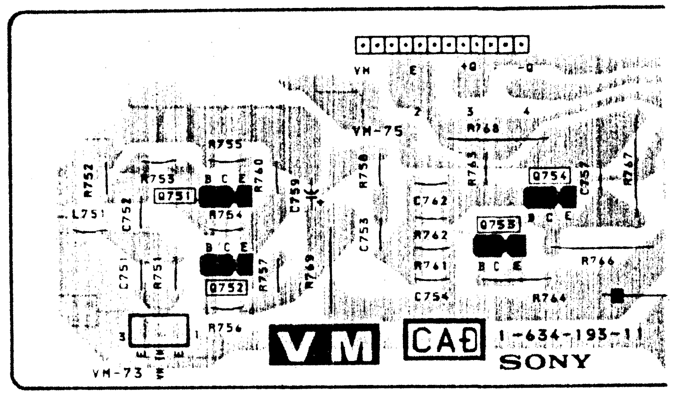


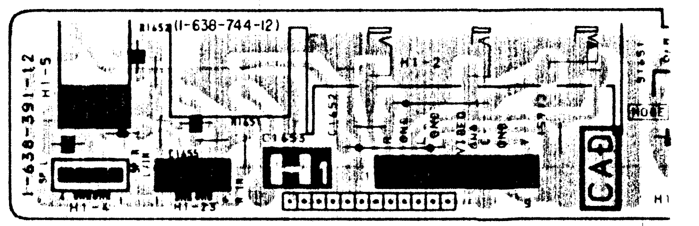

−J1 Board−



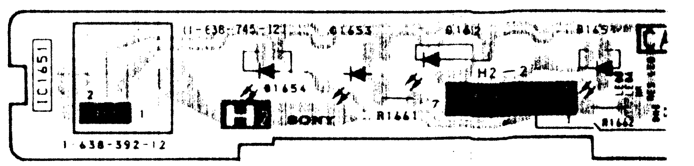

−VM Board− (29 INCH ONLY)




−H1 Board−

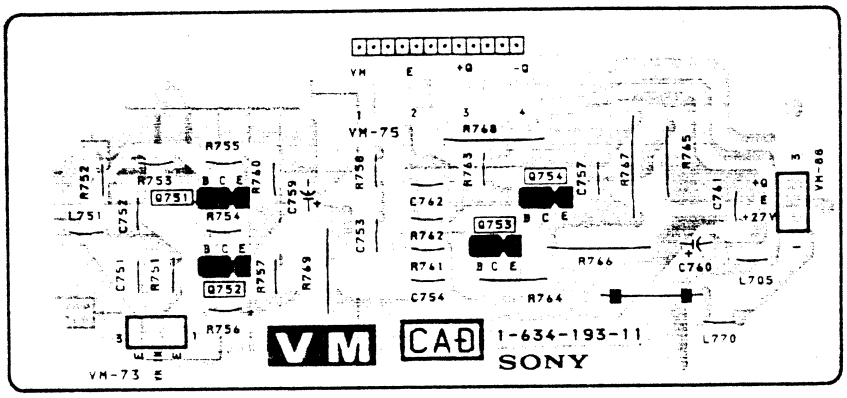



−H2 Board−

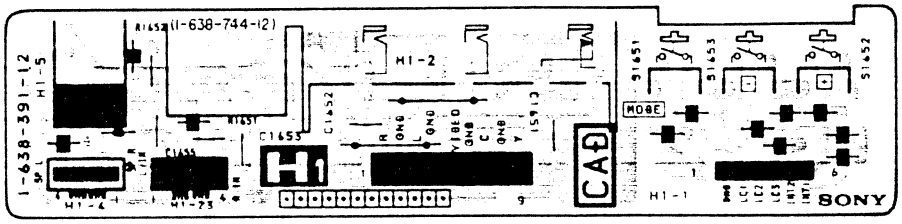


ID KV-C2161D/C2561D/C2961D
816 RM-816

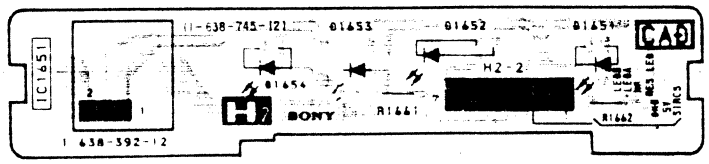
—VM Board— (29 INCH ONLY)

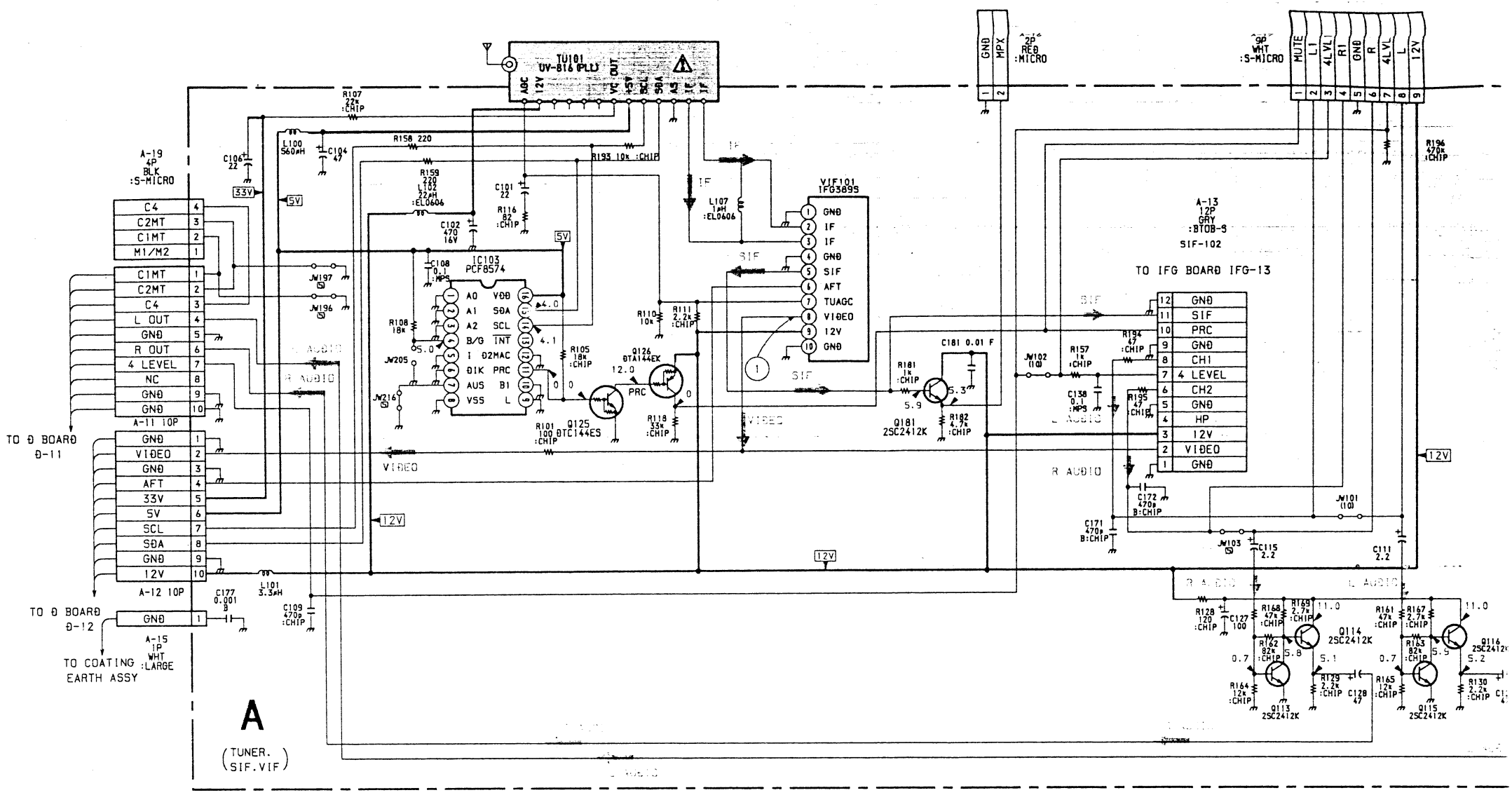



—H1 Board—



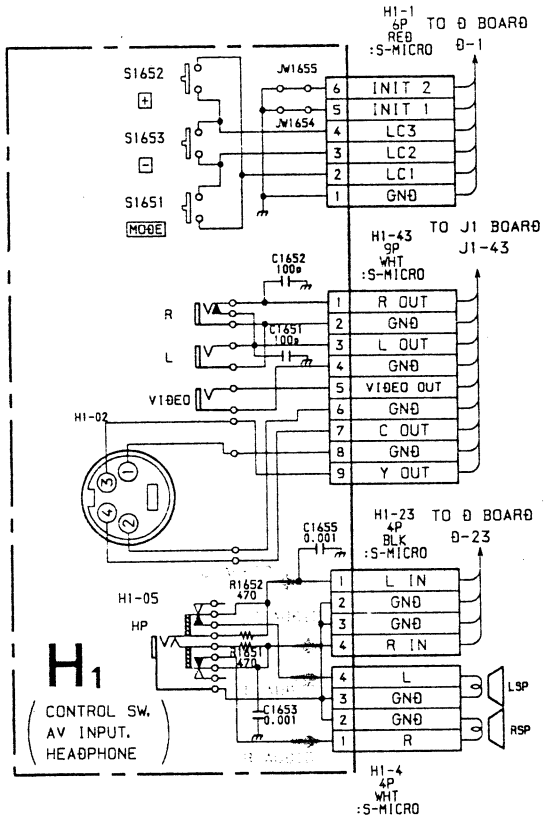

—H2 Board—





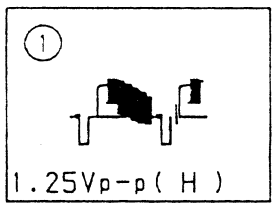

**A**
(TUNER. SIF.VIF)

B-SS4114<AEP>




B-SS4114<AEP>-H1.

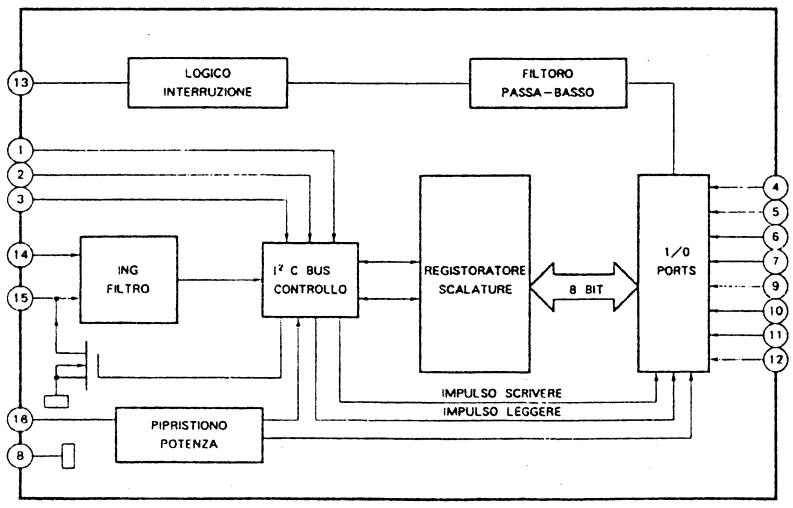
## • WAVEFORMS A BOARD

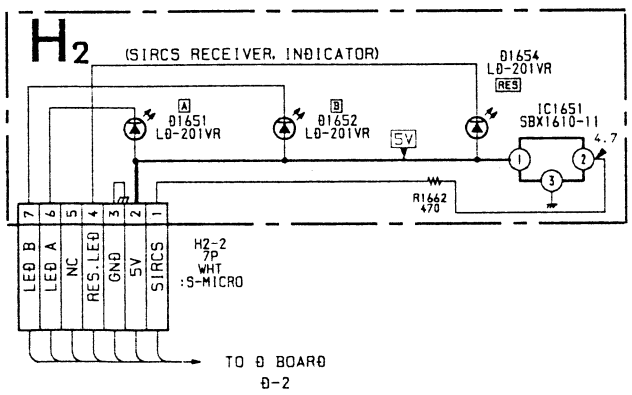



## • A BOARD

| IC103 | PCF8574 | EXPANDER |
|---|---|---|
| | | |
| Q113 | 2SC2412K | AUDIO AMP |
| Q114 | 2SC2412K | AUDIO AMP |
| Q115 | 2SC2412K | AUDIO AMP |
| Q116 | 2SC2412K | AUDIO AMP |
| Q125 | DTC144ES | MUTE SW |
| Q126 | DTA144EK | MUTE SW |
| Q181 | 2SC2412K | NICAM BUFFER |

## A BOARD IC103 PCF8574

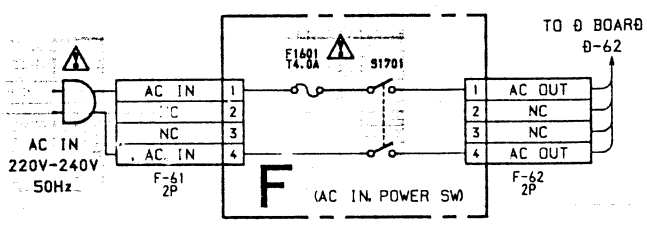



B-SS4114<AEP>-H2.

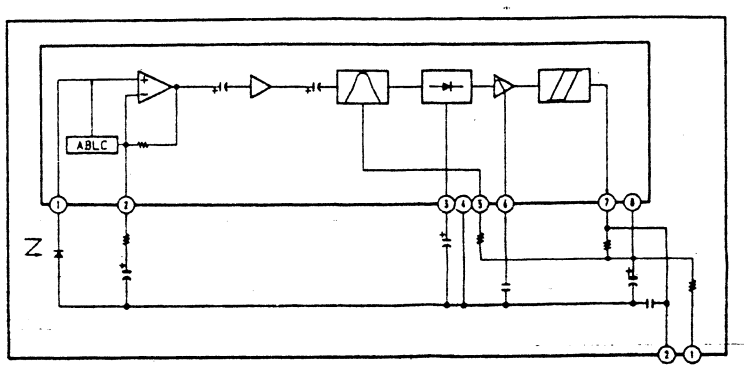
## • H2 BOARD

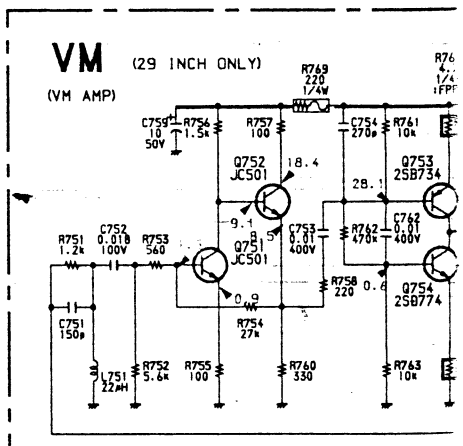
| IC1651 | SBX1610-11 | INFRARED RECIEVER |
|---|---|---|
| | | |
| D1651 | LD-201VR | AUDIO CHANNEL A INDICATOR |
| D1652 | LD-201VR | AUDIO CHANNEL B INDICATOR |
| D1654 | LD-201VR | RESET |




B-SS4114<AEP>-F..

## H2 BOARD IC1651 SBX1610-11



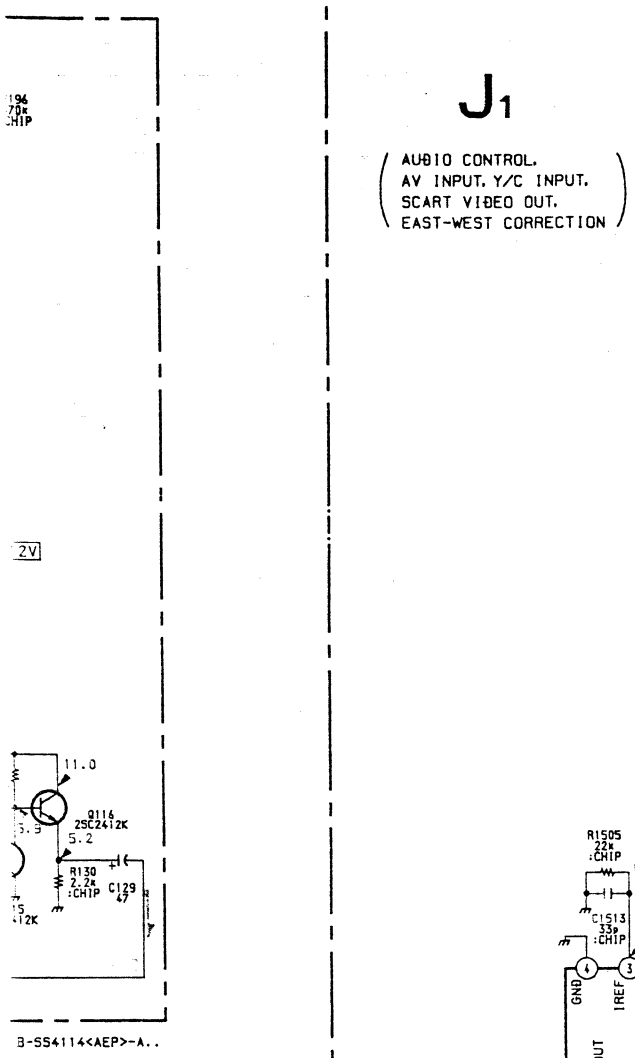




## • VM BOARD (29 INCH ONLY)

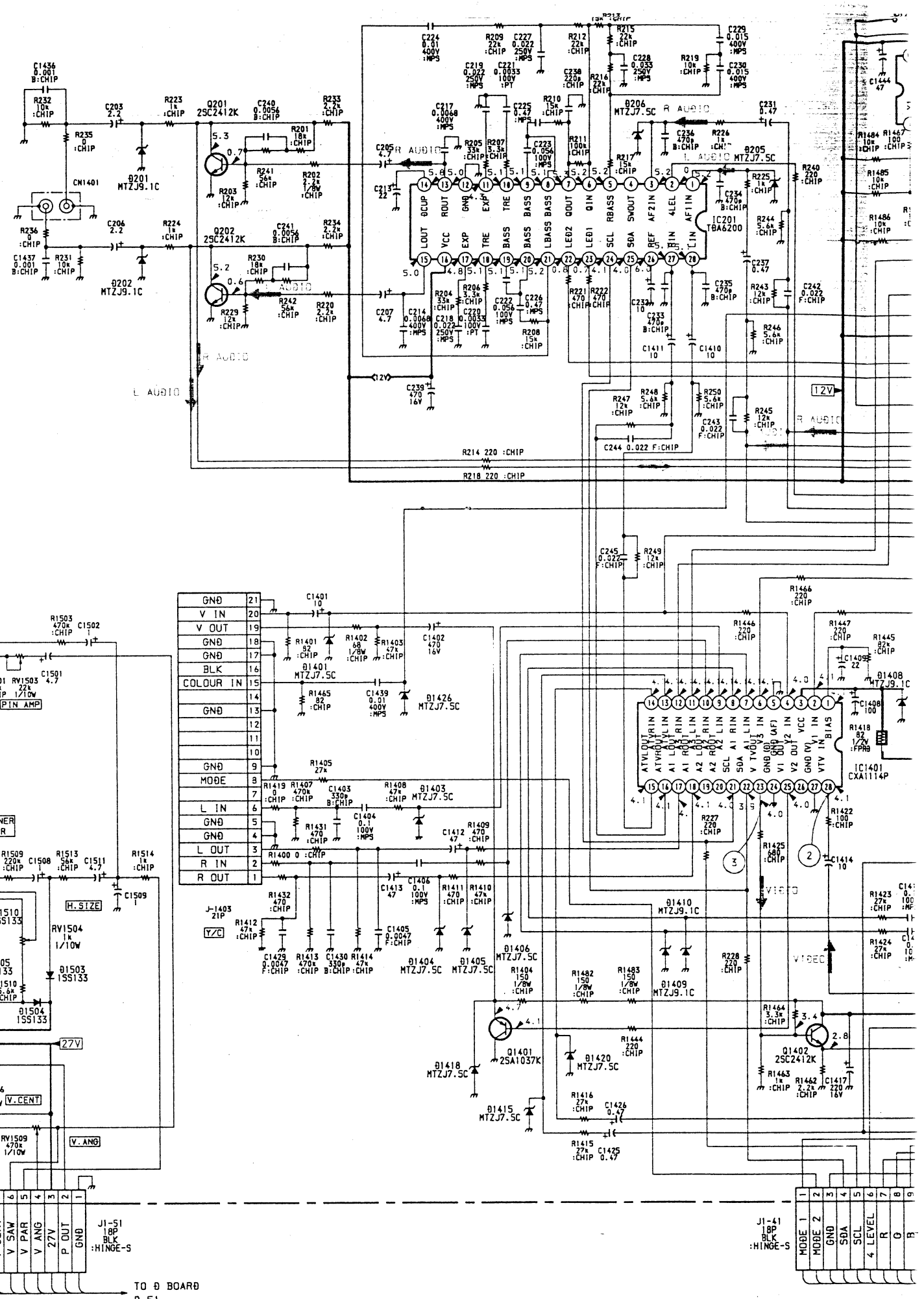
| Q751 | JC501 | REF-AMP |
|---|---|---|
| Q752 | JC501 | REF-AMP |
| Q753 | 2SB734 | PUSH-PULL OUT |
| Q754 | 2SD774 | PUSH-PULL OUT |

# J1

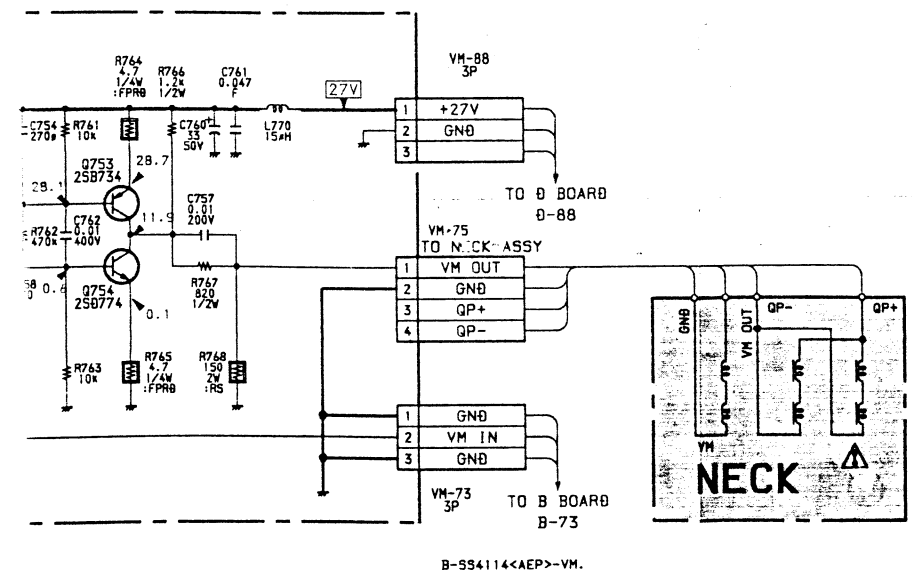
( AUDIO CONTROL.
AV INPUT, Y/C INPUT.
SCART VIDEO OUT.
EAST-WEST CORRECTION )






Ø-51



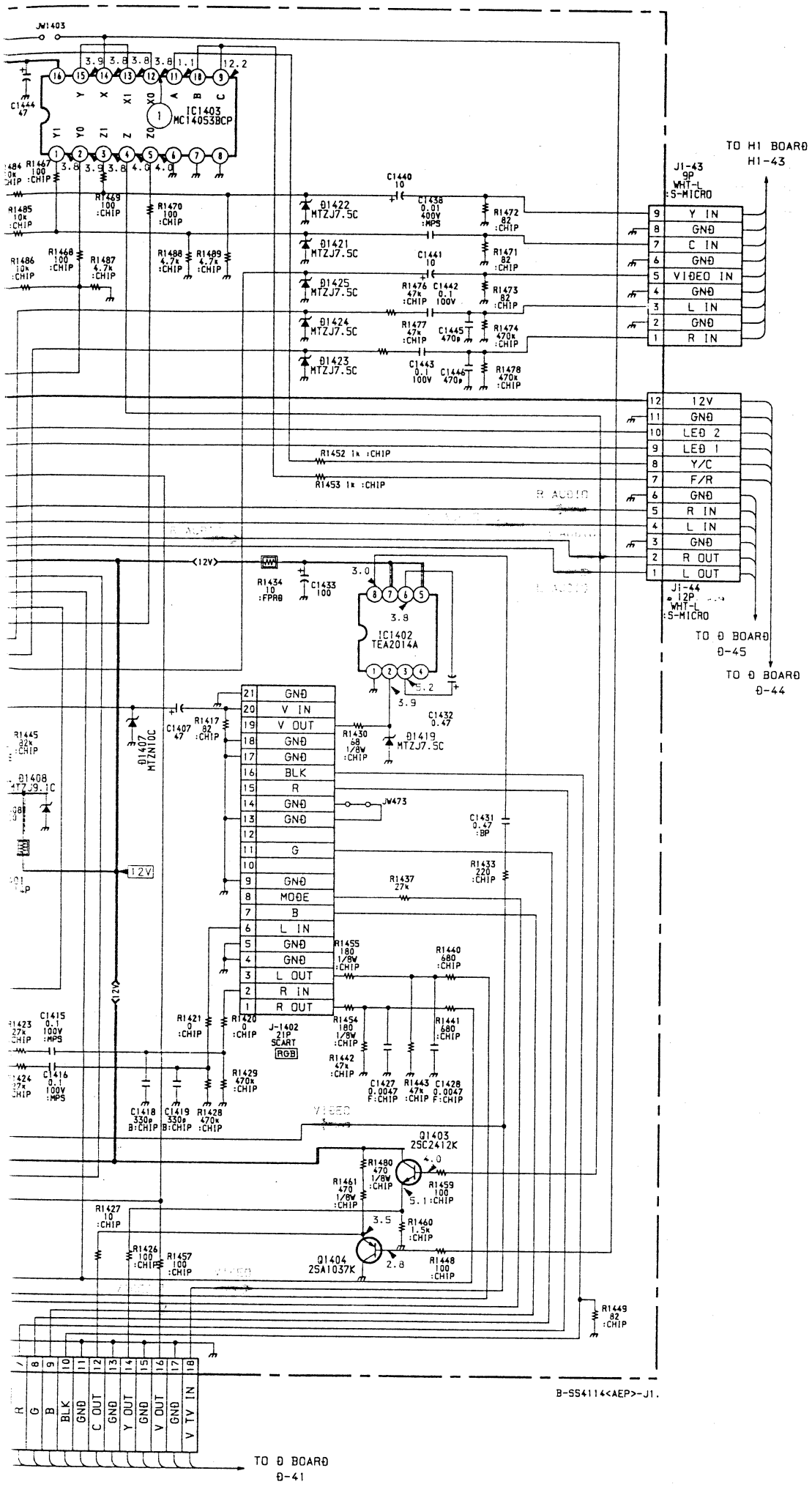

J1 BOARD * MARK

| | 21″ | 25″ | 29″ |
|---|---|---|---|
| C1512 | 0.0068 400V | 0.0068 400V | - |
| C1514 | 0.0022 250V | 0.0068 250V | - |
| C1515 | 820P | 820P | - |
| | | | |
| R1515 | 680K | 680K | - |
| R1520 | 470K | 470K | 390K |
| R1550 | JW | JW | 1 1W F |

- : NOT MOUNTED

-Y)

| |
|---|
| 1P |
| 1P |
| ULL OUT |
| ULL OUT |




| | |
|---|---|
| 9 | Y IN |
| 8 | GND |
| 7 | C IN |
| 6 | GND |
| 5 | VIDEO IN |
| 4 | GND |
| 3 | L IN |
| 2 | GND |
| 1 | R IN |

| | |
|---|---|
| 12 | 12V |
| 11 | GND |
| 10 | LED 2 |
| 9 | LED 1 |
| 8 | Y/C |
| 7 | F/R |
| 6 | GND |
| 5 | R IN |
| 4 | L IN |
| 3 | GND |
| 2 | R OUT |
| 1 | L OUT |

| | |
|---|---|
| 21 | GND |
| 20 | V IN |
| 19 | V OUT |
| 18 | GND |
| 17 | GND |
| 16 | BLK |
| 15 | R |
| 14 | GND |
| 13 | GND |
| 12 | |
| 11 | G |
| 10 | |
| 9 | GND |
| 8 | MODE |
| 7 | B |
| 6 | L IN |
| 5 | GND |
| 4 | GND |
| 3 | L OUT |
| 2 | R IN |
| 1 | R OUT |

| | |
|---|---|
| R | 8 |
| G | 9 |
| B | 10 |
| BLK | 11 |
| GND | 12 |
| C OUT | 13 |
| GND | 14 |
| Y OUT | 15 |
| GND | 16 |
| V OUT | 17 |
| GND | 18 |
| V TV IN | |

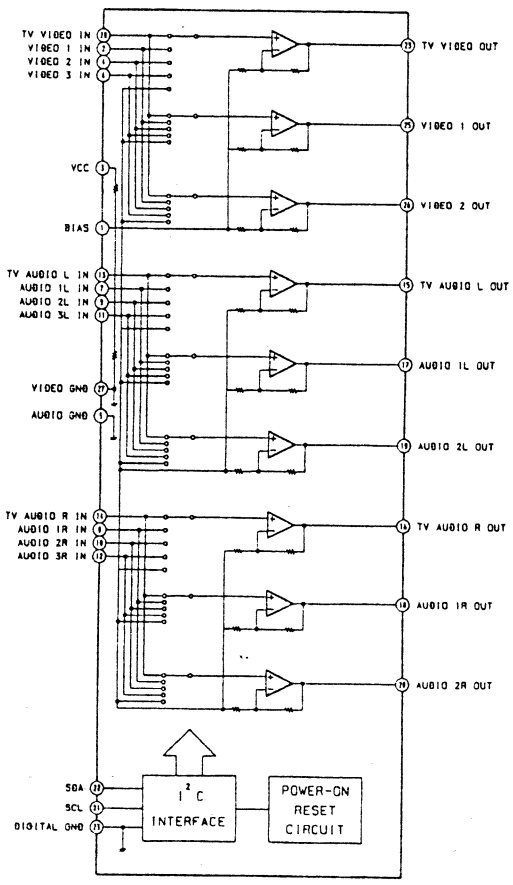
## · J1 BOARD

| | | |
|---|---|---|
| IC201 | TDA6200 | AUDIO CONTROL |
| IC1401 | CXA1114P | AV SW |
| IC1402 | TEA2014A | SCART VIDEO OUT |
| IC1403 | MC14053BCP | COMPOSITE Y/C SW |
| IC1501 | TEA2031A | EAST-WEST CORRECTION |
| | | |
| Q201 | 2SC24'2K | AUDIO R BUFF |
| Q202 | 2SC2412K | AUDIO L BUFF |
| Q1401 | 2SA1037K | VIDEO OUT |
| Q1402 | 2SC2412K | VIDEO OUT BUFF |
| Q1403 | 2SC2412K | Y OUT BUFF |
| Q1404 | 2SA1037K | C OUT BUFF |
| | | |
| D201 | MTZJ9.1C | PROTECT |
| D202 | MTZJ9.1C | PROTECT |
| D205 | MTZJ7.5C | PROTECT |
| D206 | MTZJ7.5C | PROTECT |
| D1401 | MTZJ7.5C | PROTECT |
| D1403 | MTZJ7.5C | PROTECT |
| D1404 | MTZJ7.5C | PROTECT |
| D1405 | MTZJ7.5C | PROTECT |
| D1406 | MTZJ7.5C | PROTECT |
| D1407 | MTZN10C | PROTECT |
| D1408 | MTZJ9.1C | REG |
| D1409 | MTZJ9.1C | PROTECT |
| D1410 | MTZJ9.1C | PROTECT |
| D1415 | MTZJ7.5C | PROTECT |
| D1418 | MTZJ7.5C | PROTECT |
| D1419 | MTZJ7.5C | PROTECT |
| D1420 | MTZJ7.5C | PROTECT |
| D1421 | MTZJ7.5C | PROTECT |
| D1422 | MTZJ7.5C | PROTECT |
| D1423 | MTZJ7.5C | PROTECT |
| D1424 | MTZJ7.5C | PROTECT |
| D1425 | MTZJ7.5C | PROTECT |
| D1426 | MTZJ7.5C | PROTECT |
| D1501 | RGP10G | PROTECT |
| D1502 | 1SS133 | DECOUPLING H SIZE |
| D1503 | 1SS133 | CLIPPING V PARABORA |
| D1504 | 1SS133 | CLIPPING H PULSE |
| D1505 | 1SS133 | REG |
| D1506 | MTZJ36D | PROTECT |
| D1507 | 1SS133 | PROTECT |
| D1510 | 1SS133 | REG |

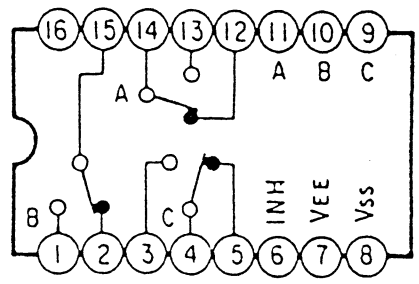
## · WAVEFORMS J1 BOARD

| ① | ② | ③ |
|---|---|---|
| 1.25Vp-p ( H ) | 1.25Vp-p ( H ) | 2.0Vp-p ( H ) |

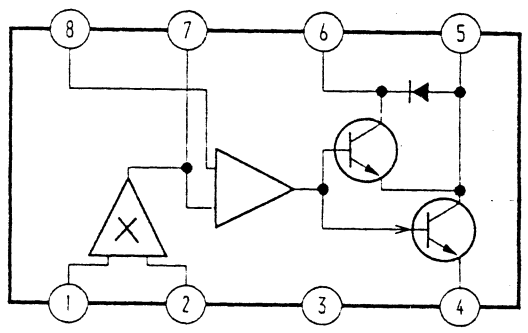
## J1 BOARD IC1401 CXA1114P



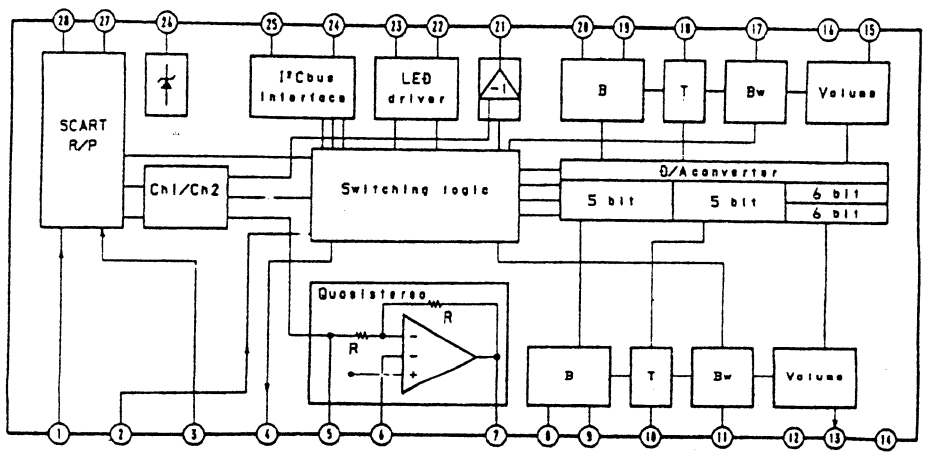

## J1 BOARD IC1403 MC14053BCP



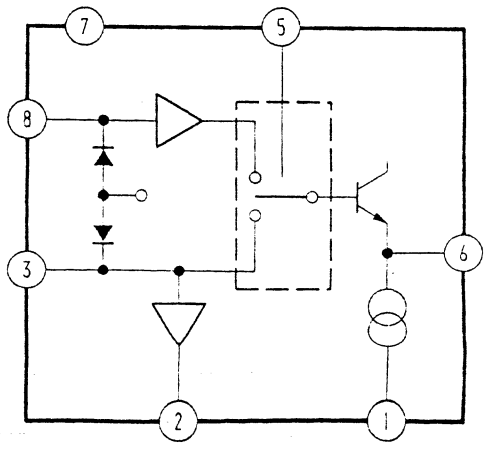

## J1 BOARD IC1501 TEA2031A



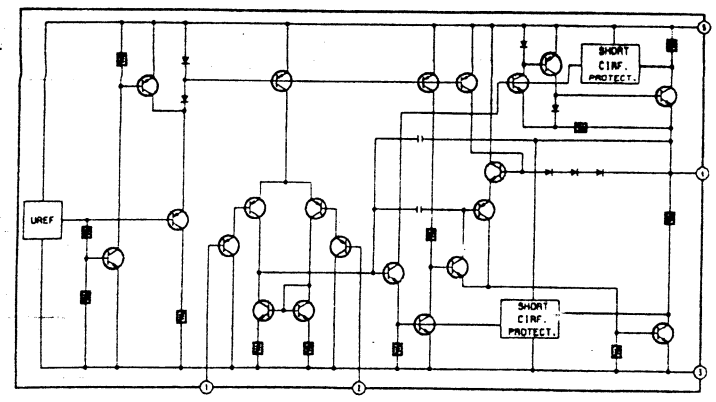
## J1 BOARD IC201 TDA6200



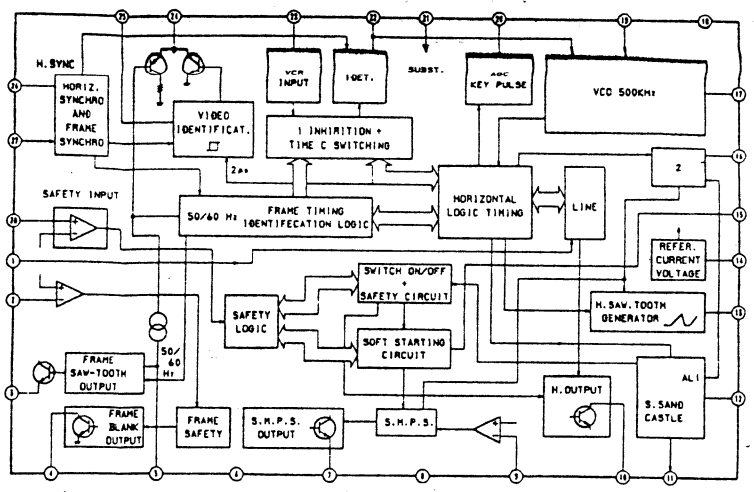

## J1 BOARD IC1402 TEA2014A



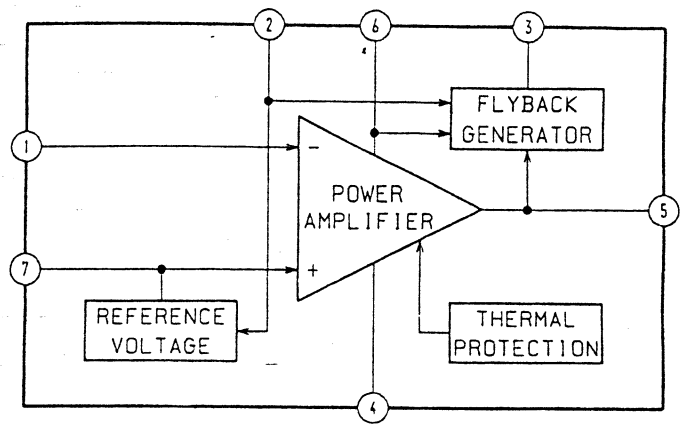
## D BOARD IC251/261 TDA2050



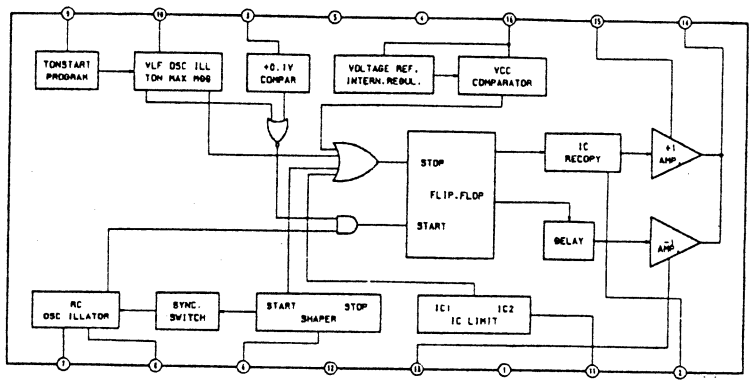

## D BOARD IC501 TEA2028B




## D BOARD IC502 TDA8170




## D BOARD IC601 TEA2260




## • WAVEFORMS D BOARD

| | | |
|---|---|---|
| ① 1.0 Vp-p( H ) | ② 2.5 Vp-p( V ) | ③ 4.8 Vp-p( V ) |
| ④ 3.0 Vp-p( V ) | ⑤ 4.5 Vp-p( H ) | ⑥ 9.0 Vp-p( H ) |
| ⑦ 12.0Vp-p( H ) | ⑧ 3.4 Vp-p( H ) | ⑨ 0.1 Vp-p(503KHz) |
| ⑩ 1.1 Vp-p( H ) | ⑪ 0.7Vp-p( V ) | ⑫ 3.0 Vp-p( V ) |
| ⑬ 29.0Vp-p( V ) | ⑭ 28.0Vp-p( V ) | ⑮ 3.4 Vp-p( H ) |
| ⑯ 230 Vp-p( H ) | ⑰ 16.0Vp-p( H ) | ⑱ 900 Vp-p( H ) |
| ⑲ 260Vp-p ( H ) | ⑳ 8.0Vp-p ( V ) | ㉑ 48.0Vp-p ( V ) |
| ㉒ 1.4Vp-p ( H ) | ㉓ 4.0 Vp-p(12MHz) | |

## D BOARD * MARK

| | 21″ | 25″ | 29″ | | 21″ | 25″ | 29″ |
|---|---|---|---|---|---|---|---|
| C519 | 0.47 | 0.47 | 0.33 | L806 | DCC-H | DRAM CORE (CDI) | HCC DUST CORE 3.9mH |
| C526 | 27P | 27P | 22P | | | | |
| C536 | 4.7 16V | 10 16V | 10 16V | L810 | WITH CORE | PMC | PMT |
| C617 | 220 25V | 100 50V | 100 50V | | | | |
| C620 | 1 63V | 0.47 50V | 0.47 50V | R077 | 1K | – | 1K |
| C811 | 1 200V | 2 200V | 2 200V | R525 | 1K | 1K | – |
| C815 | 1 200V | 1 200V | 0.82 200V | R531 | – | 120K | 120K |
| C817 | 0.0106 1.4KV | 0.015 1.4KV | 0.017 1.4KV | R532 | – | 1K | 1K |
| C821 | 680P 2KV | 680P 2KV | 470P 2KV | R533 | 180 | 0 | 0 |
| | | | | R535 | 4.7M | 2.2M | 2.2M |
| D-88 | – | – | 3P | R545 | 39K | 22K | 22K |
| | | | | R547 | 5.6K | 3.3K | 3.3K |
| D506 | DA204K | DA204K | – | R548 | 1.2 1W F | 1 1W F | 1 1W F |
| D509 | – | 1SS133 | 1SS133 | R549 | 470 2W F | 390 2W F | 390 2W F |
| D514 | 5mm JW | 5mm JW | 1SS133 | R552 | 1.2K 1W | – | – |
| D515 | – | – | 1SS133 | R561 | – | – | 270K |
| D807 | – | ERC26-15S | ERC06-15S | R570 | – | – | 680 |
| D808 | ERD28-08S | ERD29-08J | ERD29-08J | R600 | – | 1 | 1 |
| | | | | R603 | 15 3W F | 12 3W F | 12 3W F |
| JW202 | – | – | 5mm | R607 | 4.7K | 4.7K | 5.6K |
| JW203 | 5mm | 5mm | – | R631 | 27K 2W | 27K 2W | – |
| JW204 | 5mm | 5mm | – | R643 | 0.15 2W F | 0.12 2W F | 0.12 2W F |
| JW205 | – | – | 5mm | R811 | 100 1W | 22 2W F | 22 2W F |
| JW206 | 5mm | 5mm | – | R812 | 75K 1/2W | 68K 1/2W | 51K 1/2W |
| JW207 | 5mm | 5mm | – | R825 | 1 1W F | 0.47 1W F | 0.47 1W F |
| JW216 | 15mm | 15mm | – | R5503 | 4.7 | 4.7 | 10 |
| JW229 | 10mm | 10mm | – | R5506 | – | – | 12K |
| | | | | | | | |
| L801 | – | – | 3.9mH | | | | |

– : NOT MOUNTED

## • D BOARD

| | | |
|---|---|---|
| IC001 | SDA2560-A012 | TUNI |
| IC002 | MC14051BCP | ON S |
| IC003 | BA4558 | AFT ( |
| IC005 | SDA2546 | MY M |
| IC251 | TDA2050 | AUDIC |
| IC261 | TDA2050 | AUDIC |
| IC501 | TEA2028B | DEFLE |
| IC502 | TDA8170 | V OU |
| IC601 | TEA2260 | PRIMA |
| IC604 | TEA7605 | + 5V |
| IC608 | MC7812CT | + 12V |
| | | |
| Q001 | DTC144EK | 50/6 |
| Q002 | DTC144EK | BLK S |
| Q003 | 2SA1037K | SYNC |
| Q004 | 2SA1037K | SYNC |
| Q005 | DTC144EK | Y/C S |
| Q006 | DTC144EK | FRONT |
| Q007 | 2SC2412K | MODE |
| Q008 | 2SC2412K | MODE |
| Q009 | 2SC2412K | MUTE |
| Q010 | 2SC2412K | RESET |
| Q251 | 2SC2412K | AUDIO |
| Q261 | 2SC2412K | AUDO |
| Q271 | 2SC2412K | VOLTA |
| Q502 | 2SA1037K | CONST |
| Q505 | 2SD774-4 | V CEN |
| Q506 | 2SB734-3 | V CEN |
| Q507 | 2SA1037K | CANAL |
| Q598 | 2SA1037K | VIDEO |
| Q601 | 2SB1357T114EF | STBY S |
| Q602 | 2SD1548 | REG O |
| Q603 | 2SB1357T114EF | STBY S |
| Q604 | 2SA1037K | FAST C |
| Q605 | 2SC2412K | STBY S |
| Q606 | 2SC2412K | STBY S |
| Q607 | 2SD2096 | + 12V |
| Q608 | 2SC2412K | STBY S |
| Q609 | 2SD789-3 | STBY S |
| Q801 | 2SC2412K | ABL AM |
| Q804 | 2SD1941-06 | H OUT |
| Q805 | 2SC2688-L | H DRIV |
| | | |
| D001 | MTZJ6.8C | PROTEC |
| D002 | MTZJ6.8C | PROTEC |
| D003 | 1SS133 | HUE CT |
| D005 | MTZJ5.6B | PROT |
| D006 | MTZJ33A | VC VOL |
| D007 | MTZJ3.9B | PLOT F |
| D009 | MTZJ5.6B | CLIPPIN |
| D010 | MTZJ6.2B | PROT |
| D011 | MTZJ6.2B | PROT |
| D012 | 1SS133 | PROT |
| D013 | MTZJ6.8C | PROT |
| D271 | MTZJ13B | VOLTAG |
| D272 | 1SS133 | DECOUP |
| D501 | 1SS133 | START |
| D504 | GP08D | V PULS |
| D506 | DA204K | CURREN |
| D508 | 1SS133 | CANAL |
| D509 | 1SS133 | V LIN (2 |
| D511 | GP08D | PROT |
| D512 | GP08D | PROT |
| D513 | MTZJ4.7B | PROT |
| D514 | 1SS133 | PROT (2 |
| D515 | 1SS133 | PROT (2 |
| D601 | D4SB60L-F | AC REC |
| D602 | RGP10G | REF REC |
| D603 | GP08D | SMPS D |
| D604 | GP08D | SMPS D |
| D605 | GP08D | SMPS D |
| D606 | RGP10G | + 12V R |
| D607 | RGP10G | REF REC |
| D608 | ERC25-06S | PLUSE C |
| D609 | MTZJ33A | FAST ON |
| D610 | CTU-12S | + 14V R |
| D611 | ERD29-08J | + 135V |
| D612 | CTU-12S | + 7V RE |
| D613 | RGP15J | AF V RE |
| D614 | RGP15J | AF V RE |
| D616 | MTZJ6.2B | + 12V R |
| D617 | 1SS133 | PROT |
| D618 | MTZJ5.6B | + 12V R |
| D619 | MTZJ33A | FAST ON |
| D620 | DA204K | + 12V R |
| D621 | MTZJ33A | FAST ON |
| D622 | 1SS133 | PROT |
| D623 | 1SS133 | DECOUPL |
| D624 | 1SS133 | DECOUPL |
| D630 | MTZJ15A | + 12V RE |
| D801 | RGP10G | + 27V RE |
| D802 | RGP10G | + 200V F |
| D803 | RGP02-17 | G2 RECT |
| D804 | GP08D | H CENTE |
| D805 | GP08D | H CENTE |
| D806 | ERC06-15S | H DAMPE |
| D807 | ERC06-15S | H DAMPE |
| D808 | ERD28-08S | PIN DAM |
| D808 | ERD29-08J | PIN DAM |

- JING CTL
- SCREEN DISPLAY
- COMPARATOR
- MEMORY
- IO OUT (L)
- IO OUT (R)
- LECTION PROCESSOR
- UT
- MARY SMRS CTL
- REG
- 2V REG
- 60Hz SW
- SW
- NC SEPARATOR
- NC SEPARATOR
- C SW
- NT/REAR SW
- DE 2 SW
- DE 1 SW
- TE SW
- ET
- IO MUTE
- O MUTE
- TAGE DETECT
- ISTANT CURRENT SOURCE
- ENT
- ENT
- NAL + BLK
- EO AMP
- Y SW
- OUT
- Y SW
- T ON/OFF
- Y SW
- Y SW
- 2V REG
- Y SW
- Y SW
- AMP
- UT
- RIVER
- TECT
- TECT
- CTL
- T
- VOLTAGE REGULATION
- T RESET
- PPING SYNC LEVEL
- T
- T
- T
- T
- TAGE DETECT
- OUPLING MUTE AUDIO
- RT
- ULSE OUT
- RRENT (21/25 INCH ONLY)
- NAL + BLK LEVEL
- N (25/29 INCH ONLY)
- T
- T
- T
- T (29 INCH ONLY)
- T (29 INCH ONLY)
- RECT
- RECT
- S DRIVE 1
- S DRIVE 2
- S DRIVE 3
- V RECT
- RECT
- SE CLIPPER
- T ON/OFF
- V RECT
- 5V RECT
- RECT
- / RECT 1
- / RECT 2
- V REG
- T
- V REF
- T ON/OFF 2
- V REF
- T ON/OFF 3
- T
- OUPLING STBY
- OUPLING STBY
- V RECT
- V RECT
- 0V RECT
- RECT
- ENTER 1
- ENTER 2
- AMPER 1
- AMPER 2 (25/29 INCH ONLY)
- DAMPER (21 INCH ONLY)
- DAMPER (25/29 INCH ONLY)

TUNING CONTROL,
POWER CONTROL,
AUDIO OUT,
H/V OUT.

D

TO J1 BOARD
J1-44

TO H2 BOARD
H2-2

CN-18 2P BLK :MICRO — GND, 7V

CN-44 6P WHT — F/R, Y/C, LED 1, LED 2, GND, 1V

CN-2 7P WHT :S-MICRO — LEDB, LEDA, N, RS.LED, GND, +V, SRCS

RIBON WIRE
WITH DIP PIN

TO H1 BOARD
H1-23

CN-23 — L OUT, GND, GND, R OUT

IC251 TDA2050 L

IC261 TDA2050 R

IC001 SDA20560-A012

IC002 MC14051BCP

IC003 BA4558

IC005 SDA2546

CN-31 10P GRY :BTOB-P
10 V IN
9 V BLANK
8 Y OUT
7 7V
6 V OUT
5 YC-SWITCH
4 C OUT
3 GND
2 SDA
1 SCL
TO B BOARD B-31

CN-21 10P GRY :BTOB-P
10 GND
9 14V
8 GND
7 GND
6 7V
5 ST.BY
4 GND
3 VIDEO
2 S-TV
1 GND
TO V BOARD CNV-1

CN-32 10P GRY :BTOB-P
10 HUE
9 ST.BY
8 MUTE
7 CHAR
6 P/ON
5 GND
4 +12V
3 SCP
2 +BLK
1 ABL
TO B BOARD B-32

CN-22 10P GRY :BTOB-P
10 PON
9
8 GND
7 TDAT
6 TCLK
5 GND
4 R IN
3 G IN
2 B IN
1 BLK
TO V BOARD CNV-2

CN-33 10P GRY :BTOB-P
1 BLK1
2 B OUT
3 G OUT
4 R OUT
5 GND
6 BLK
7 TEXT B
8 TEXT G
9 TEXT R
10 GND
TO B BOARD B-33

CN-11 10P
1 C1MT
2 C2MT
3 C4
4 L IN
5 GND
6 R IN
7 4-LEVEL
8 NC
9 GND
10 GND
TO A BOARD A-11

CN-12 10P
1 GND
2 VIDEO IN
3 GND
4 AFT
5 33V
6 5V
7 SCL
8 SDA
9 GND
10 12V
TO A BOARD A-12

CN-41 18P
1 MODE 1
2 MODE 2
3 GND
4 SDA
5 SCL
6 4 LEVEL
7 R
8 G
9 B
10 BLK
11 GND
12 C IN
13 GND
14 Y IN
15 GND
16 V IN
17 GND
18 V TV OUT
TO J1 BOARD J1-41

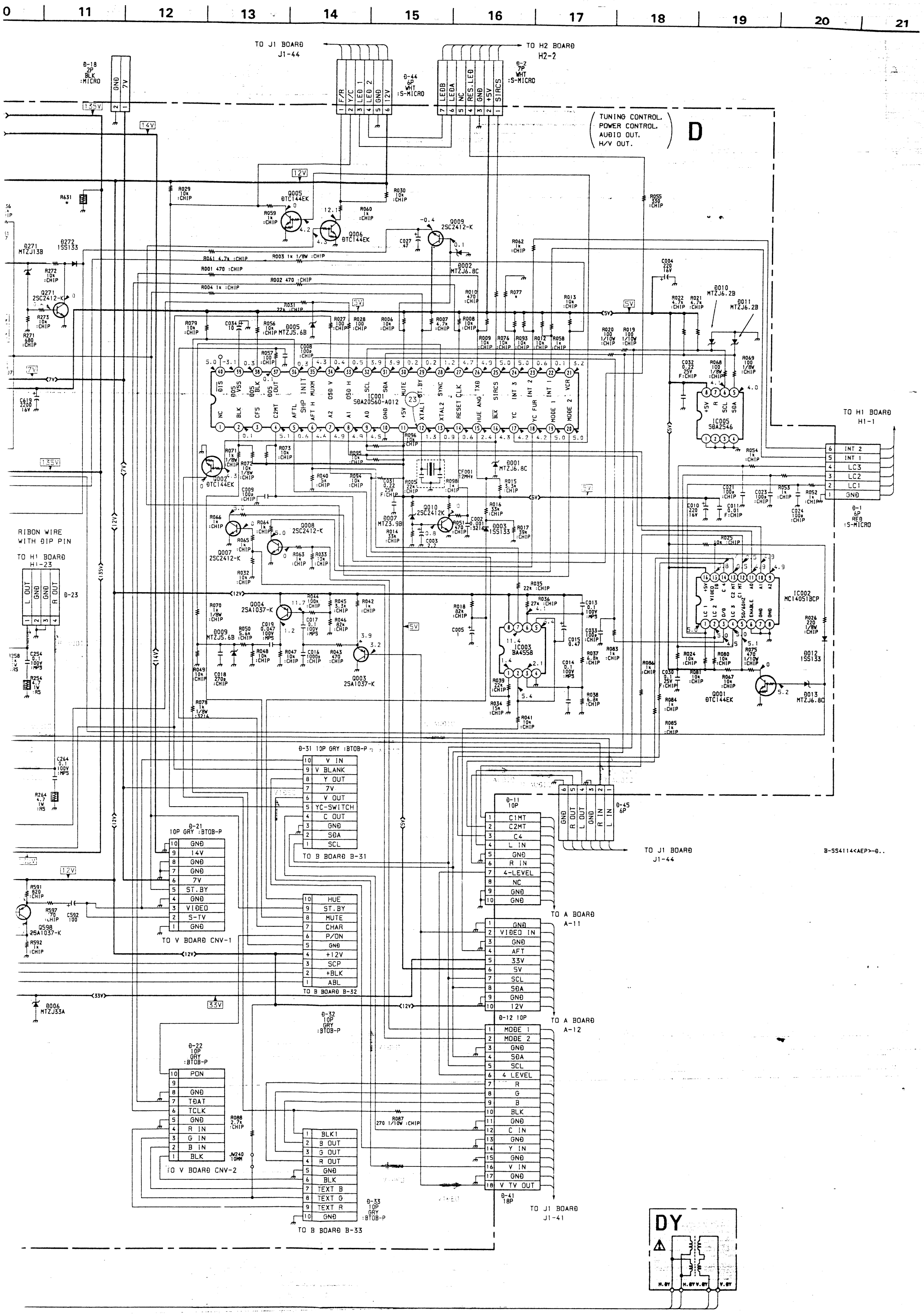
CN-45 6P — GND, R OUT, L OUT, GND, R IN, L IN
TO J1 BOARD J1-44

CN-84 6P WHT :MINI — H+, H-, H+, V-, V+

CN-1 6P RED :S-MIC — 6 INT 2, 5 INT 1, 4 LC3, 3 LC2, 2 LC1, 1 GND

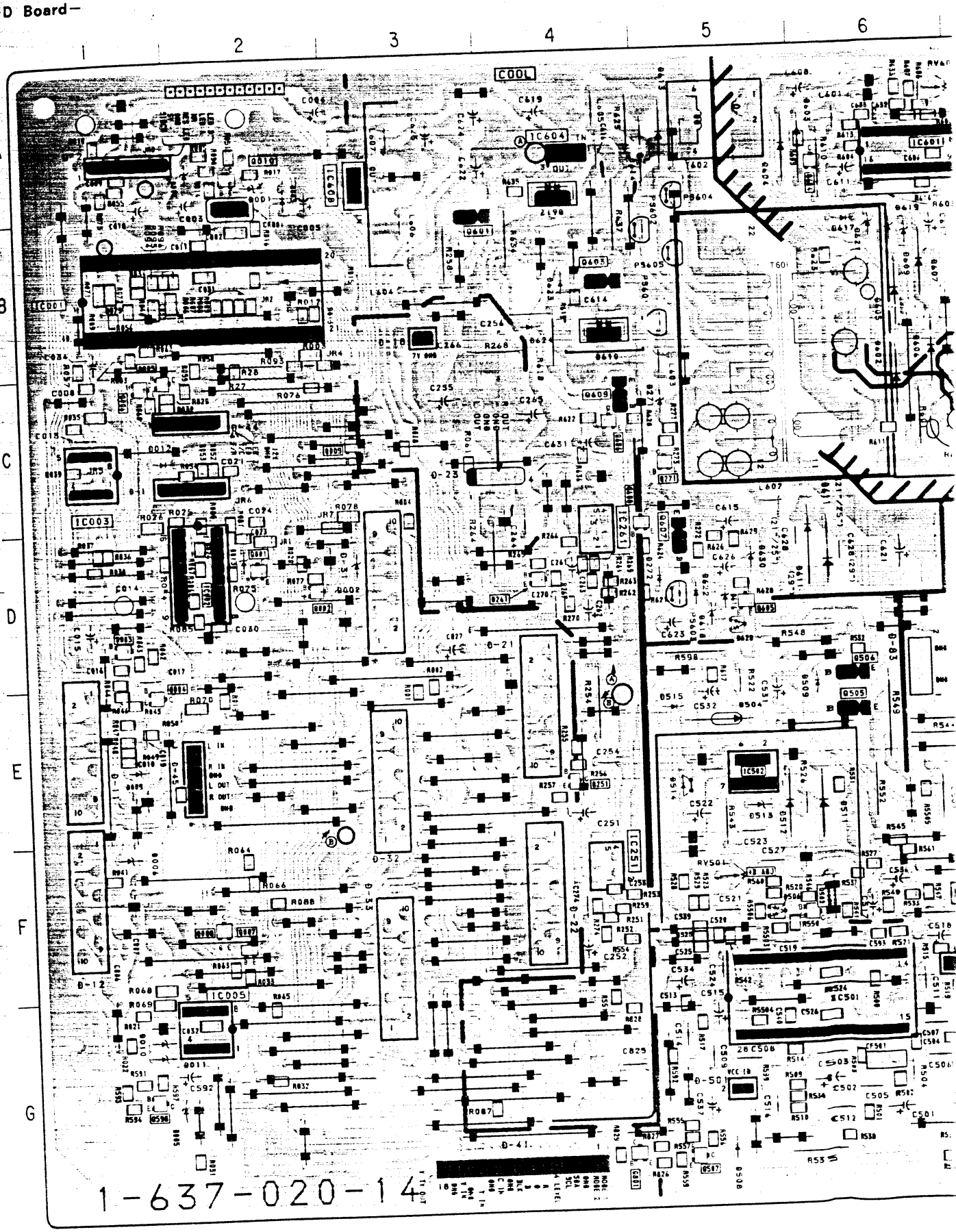
TO H1 H1

B-SS4114<AEP


TO J1 BOARD
J1-44
TO H2 BOARD
H2-2
CN-18 2P BLK :MICRO
CN-44 6P WHT :S-MICRO
CN-2 7P WHT :S-MICRO
F/R
Y/C
LED 1
LED 2
GND
12V
LEDB
LEDA
NC
RES.LED
+5V
SIRCS
(TUNING CONTROL. POWER CONTROL. AUDIO OUT. H/V OUT.)
D
13.5V
14V
12V
7V
5V
R631 *
R029 10k :CHIP
R030 10k :CHIP
R055 330 :CHIP
Q005 DTC144EK
R059 1k :CHIP
R060 1k :CHIP
Q006 DTC144EK
Q009 2SC2412-K
C027 47
R062 1k :CHIP
Q271 MTZJ13B
Q272 1SS133
R061 4.7k :CHIP
R003 1k 1/8W :CHIP
R001 470 :CHIP
R002 470 :CHIP
R004 1k :CHIP
D002 MTZJ6.8C
R010 470 :CHIP
R077 *
R013 10k :CHIP
C004 220 16V
D010 MTZJ6.2B
D011 MTZJ6.2B
R022 4.7k :CHIP
R021 4.7k :CHIP
Q271 2SC2412-K
R272 10k :CHIP
R273 10k :CHIP
R271 680 :CHIP
R031 22k :CHIP
R079 10k :CHIP
C034 10
R056 10k :CHIP
D005 MTZJ5.6B
R027 100 :CHIP
R028 100 :CHIP
R006 10k :CHIP
R007 4.7k :CHIP
R008 10k :CHIP
R009 10k :CHIP
R076 10k :CHIP
R093 10k :CHIP
R012 10k :CHIP
R058 1k :CHIP
R020 100 1/10W :CHIP
R019 100 1/10W :CHIP
C008 100p :CHIP
R057 100 :CHIP
C032 0.22 25V F :CHIP
R068 100 1/8W :CHIP
R069 100 1/8W :CHIP
IC001 S0A20560-A012
IC005 S0A2546
TO H1 BOARD
H1-1
INT 2
INT 1
LC3
LC2
LC1
GND
CN-1 6P RED :S-MICRO
R096 10k :CHIP
R095 10k :CHIP
R071 1k 1/8W :CHIP
R072 10k 1/8W :CHIP
Q002 DTC144EK
R073 10k :CHIP
R040 5k :CHIP
R094 10k :CHIP
C009 100p :CHIP
C031 0.22 25V F :CHIP
D007 MTZ3.9B
R005 22k :CHIP
CF001 12MHz
R098 1k :CHIP
D001 MTZJ6.8C
R015 3.3k :CHIP
Q010 2SC2412K
R051 470 :CHIP
C002 0.001 :321G
D003 1SS133
R016 33k :CHIP
R017 39k :CHIP
C003 2.2
R014 33k :CHIP
C021 100p :CHIP
C023 100p :CHIP
R053 1k :CHIP
R052 1k :CHIP
C024 100p :CHIP
C010 220 16V
C011 0.01 F :CHIP
RIBON WIRE WITH CN-PIN
TO H1 BOARD
H1-23
L OUT
GND
GND
R OUT
CN-23
Q008 2SC2412-K
R066 1k :CHIP
R064 1k :CHIP
R065 1k :CHIP
Q007 2SC2412-K
R063 10k :CHIP
R033 10k :CHIP
R032 10k :CHIP
R025 10k :CHIP
IC002 MC14051BCP
R035 22k :CHIP
R036 27k :CHIP
R044 100k :CHIP
R045 3.3k :CHIP
R042 1k :CHIP
Q004 2SA1037-K
R070 1k 1/8W :CHIP
D009 MTZJ5.6B
R050 5.6k :CHIP
C019 0.047 100V :MPS
C017 0.1 100V :MPS
R046 82k :CHIP
R018 82k :CHIP
C005 1
C013 0.1 100V :MPS
C033 100p :CHIP
R083 1k :CHIP
IC003 BA4558
C015 0.47
C014 0.1 100V :MPS
R037 6.8k :CHIP
R038 6.8k :CHIP
R039 22k :CHIP
R034 15k :CHIP
R041 10k :CHIP
R049 10k :CHIP
C018 270p :CHIP
R048 10k :CHIP
R047 10k :CHIP
C016 1000p :CHIP
R043 470 :CHIP
Q003 2SA1037-K
R078 1k 1/8W :3216
R086 1k :CHIP
C030 0.1 25V F :CHIP
R081 10k :CHIP
R080 10k :CHIP
R067 10k :CHIP
R024 10k :CHIP
R075 470 1/10W :CHIP
Q001 DTC144EK
D012 1SS133
D013 MTZJ6.8C
R084 1k :CHIP
R085 1k :CHIP
R026 220 1/8W :CHIP
C254 0.1 100V :MPS
R254 4.7 1W :RS
C264 0.1 100V :MPS
R264 4.7 1W :RS
CN-31 10P GRY :BTOB-P
V IN
V BLANK
Y OUT
7V
V OUT
YC-SWITCH
C OUT
GND
SDA
SCL
TO B BOARD B-31
CN-21 10P GRY :BTOB-P
GND
14V
GND
GND
7V
ST.BY
GND
VIDEO
S-TV
GND
TO V BOARD CNV-1
R591 820 :CHIP
R597 470 :CHIP
C592 100
Q598 2SA1037-K
R592 1k :CHIP
HUE
ST.BY
MUTE
CHAR
P/ON
GND
+12V
SCP
+BLK
ABL
TO B BOARD B-32
D006 MTZJ33A
CN-32 10P GRY :BTOB-P
CN-22 10P GRY :BTOB-P
PON
GND
TDAT
TCLK
GND
R IN
G IN
B IN
BLK
TO V BOARD CNV-2
R088 2.7k :CHIP
JW240 10MM
R087 270 1/10W :CHIP
BLK1
B OUT
G OUT
R OUT
GND
BLK
TEXT B
TEXT G
TEXT R
GND
CN-33 10P GRY :BTOB-P
TO B BOARD B-33
CN-11 10P
C1MT
C2MT
C4
L IN
GND
R IN
4-LEVEL
NC
GND
GND
VIDEO IN
GND
AFT
33V
5V
SCL
SDA
GND
12V
CN-12 10P
TO A BOARD
A-12
MODE 1
MODE 2
GND
SDA
SCL
4 LEVEL
R
G
B
BLK
GND
C IN
GND
Y IN
GND
V IN
GND
V TV OUT
CN-41 18P
TO J1 BOARD
J1-41
CN-45 6P
GND
R OUT
L OUT
GND
R IN
L IN
TO J1 BOARD
J1-44
B-SS4114<AEP>-0..
DY
H.DY
H.DY
V.DY
V.DY

## D [TUNING CONTROL, POWER CONTROL, AUDIO OUT, H/V OUT]

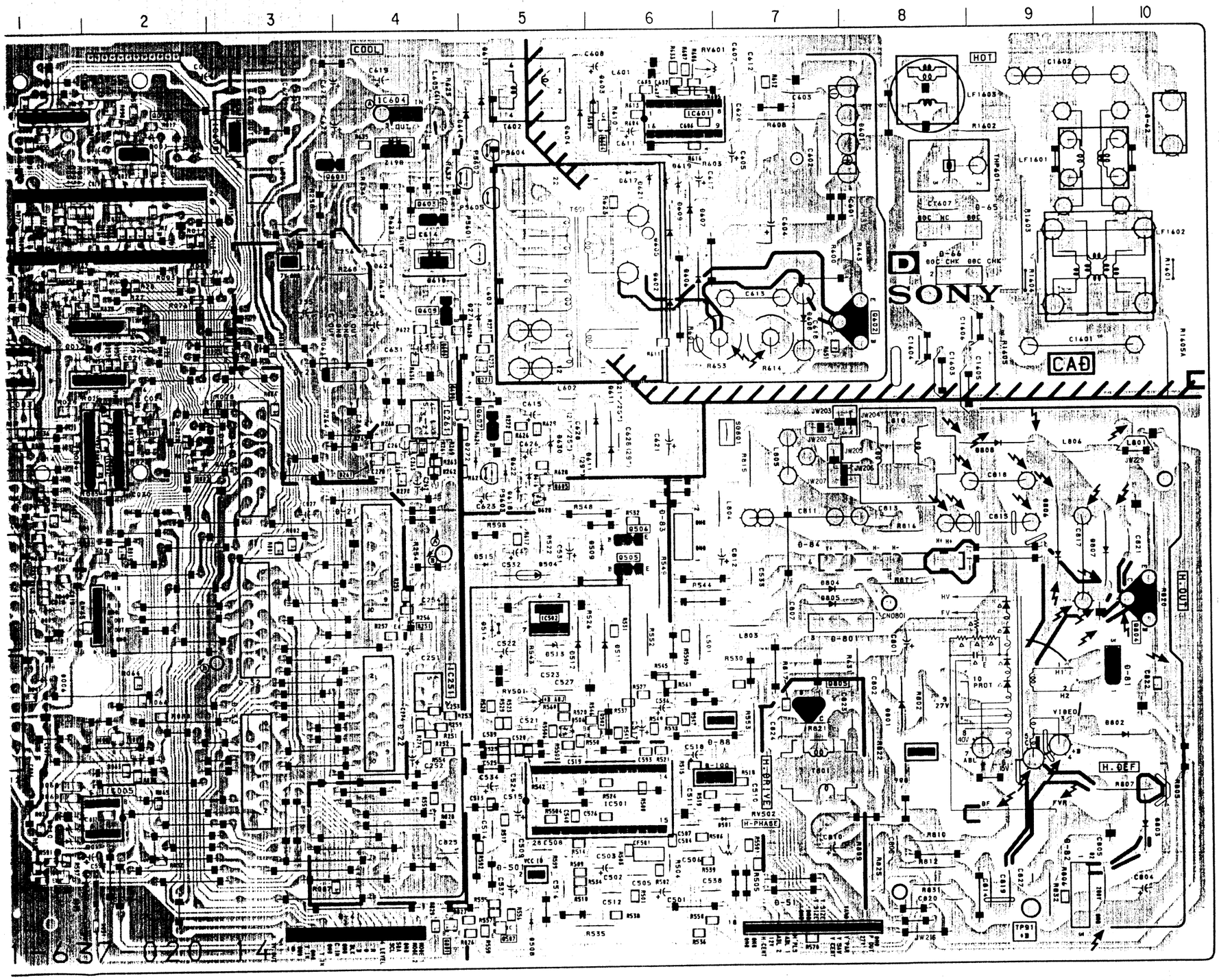
—D Board—



KV-C2161D/C2561D/C2961D RM-816

UNING CONTROL, POWER CONTROL,
UDIO OUT, H/V OUT

1–




| IC | |
|---|---|
| IC001 | B – 2 |
| IC002 | C – 2 |
| IC003 | C – 1 |
| IC005 | G – 2 |
| IC251 | F – 4 |
| IC261 | D – 4 |
| IC501 | G – 6 |
| IC502 | E – 5 |
| IC601 | A – 6 |
| IC604 | A – 4 |
| IC608 | A – 3 |

| TRANSISTOR | |
|---|---|
| Q001 | C – 2 |
| Q002 | C – 2 |
| Q003 | D – 1 |
| Q004 | D – 4 |
| Q005 | C – 1 |
| Q006 | C – 1 |
| Q007 | F – 2 |
| Q008 | F – 2 |
| Q009 | C – 3 |
| Q010 | A – 2 |
| Q251 | E – 4 |
| Q271 | C – 5 |
| Q502 | F – 5 |
| Q505 | E – 6 |
| Q506 | D – 6 |
| Q507 | G – 4 |
| Q598 | G – 1 |
| Q601 | B – 3 |
| Q602 | C – 8 |
| Q603 | B – 4 |
| Q604 | A – 6 |
| Q605 | D – 5 |
| Q606 | C – 4 |
| Q607 | D – 5 |
| Q608 | C – 4 |
| Q609 | C – 4 |
| Q801 | G – 4 |
| Q804 | E – 10 |
| Q805 | F – 7 |

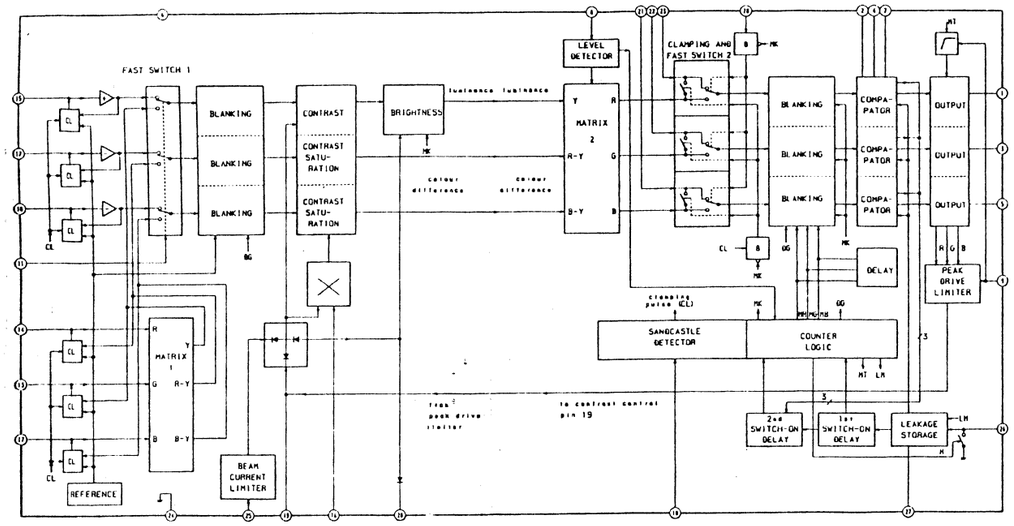
| DIODE | |
|---|---|
| D001 | A – 2 |
| D002 | D – 3 |
| D003 | A – 2 |
| D005 | G – 1 |
| D006 | F – 1 |
| D007 | A – 2 |
| D009 | E – 1 |
| D010 | G – 1 |
| D011 | G – 1 |
| D012 | C – 1 |
| D013 | D – 2 |
| D271 | C – 5 |
| D272 | D – 5 |
| D501 | G – 7 |
| D504 | E – 5 |
| D506 | F – 5 |
| D508 | G – 5 |
| D509 | F – 5 |
| D511 | E – 6 |
| D512 | E – 5 |
| D513 | E – 5 |
| D514 | E – 5 |
| D515 | E – 5 |
| D601 | A – 8 |
| D602 | C – 6 |
| D603 | A – 5 |
| D604 | A – 4 |
| D605 | B – 6 |
| D606 | B – 6 |
| D607 | B – 6 |
| D608 | C – 7 |
| D609 | B – 6 |
| D610 | B – 4 |
| D611 | D – 6 |
| D612 | A – 4 |
| D613 | A – 5 |
| D614 | A – 5 |
| D616 | D – 5 |
| D617 | B – 6 |
| D618 | D – 5 |
| D619 | B – 6 |
| D620 | D – 5 |
| D621 | B – 6 |
| D622 | D – 5 |
| D323 | B – 4 |
| D624 | B – 4 |
| D630 | D – 5 |
| D801 | F – 8 |
| D802 | F – 10 |
| D803 | G – 10 |
| D804 | E – 7 |
| D805 | E – 7 |
| D806 | E – 9 |
| D807 | E – 10 |
| D808 | D – 9 |

| VARIABLE RESISTOR | |
|---|---|
| RV501 | F – 5 |
| RV502 | G – 7 |
| RV601 | A – 6 |

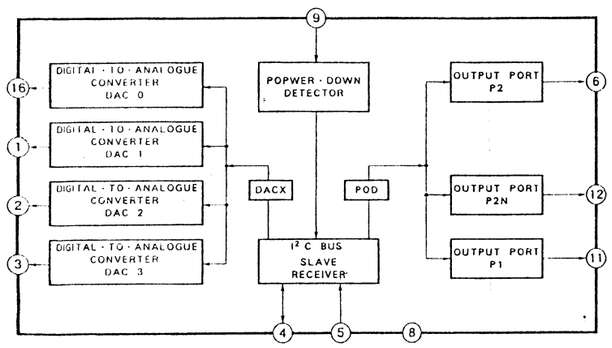
| TP | |
|---|---|
| TP91 | G – 9 |

**NOTE:**
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

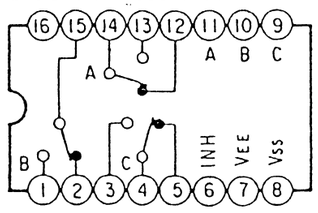
B BOARD IC301 TDA4580-V7



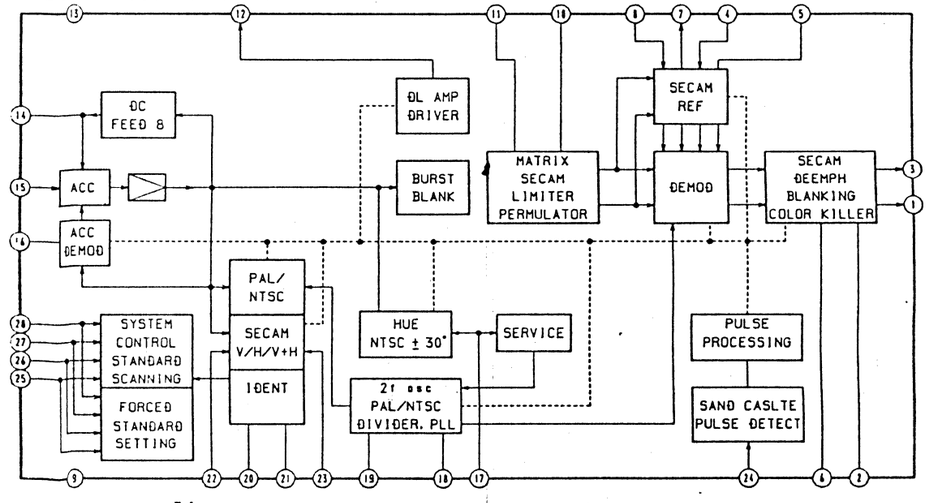

B BOARD IC302 TDA8442-N3




B BOARD IC303 MC14053BCP




B BOARD IC331 TDA4650







KV-C2161D/C2561D/C2961D
RM-816

・WAVEFORMS B BOARD

| | | | | | |
|---|---|---|---|---|---|
| ① PAL, SECAM<br>4.8 Vp-p( H ) | ① NTSC 3.58/4.43<br>5.0Vp-p ( H ) | ② PAL, SECAM<br>4.8Vp-p ( H ) | ② NTSC 3.58/4.43<br>4.8Vp-p ( H ) | ③ PAL, SECAM<br>4.8Vp-p ( H ) | ③ NTSC 3.58/4.43<br>4.8Vp-p ( H ) |
| ④<br>9.5Vp-p ( H ) | ⑤ PAL<br>0.4Vp-p ( H ) | ⑤ SECAM<br>0.36Vp-p ( H ) | ⑤ NTSC 3.58/4.43<br>0.46Vp-p( H ) | ⑥ PAL, SECAM<br>0.9Vp-p ( H ) | ⑥ NTSC 3.58/4.43<br>0.7Vp-p ( H ) |
| ⑦ PAL, SECAM<br>1.1 Vp-p ( H ) | ⑦ NTSC 3.58/4.43<br>1.25Vp-p ( H ) | ⑧ PAL<br>0.5Vp-p ( H ) | ⑧ SECAM<br>1.1Vp-p ( H ) | ⑧ NTSC 3.58/4.43<br>0.4Vp-p ( H ) | ⑨ PAL<br>0.6Vp-p ( H ) |
| ⑨ SECAM<br>1.5 Vp-p( H ) | ⑨ NTSC 3.58/4.43<br>0.6Vp-p ( H ) | ⑩ SECAM<br>0.75Vp-p ( H ) | ⑪ SECAM<br>0.2Vp-p ( H ) | ⑫ PAL<br>0.2Vp-p ( H ) | ⑫ SECAM<br>0.12Vp-p ( H ) |
| ⑫ NTSC 3.58/4.43<br>0.17Vp-p ( H ) | ⑬ PAL<br>0.4Vp-p ( H ) | ⑬ SECAM<br>0.12Vp-p ( H ) | ⑬ NTSC 3.58/4.43<br>0.3Vp-p ( H ) | ⑭ PAL<br>1.25 Vp-p( H ) | ⑭ SECAM<br>1.25Vp-p ( H ) |
| ⑭ NTSC 3.58/4.43<br>1.1Vp-p ( H ) | ⑮ PAL<br>1.25Vp-p ( H ) | ⑮ SECAM<br>1.25 Vp-p ( H ) | ⑮ NTSC 3.58/4.43<br>1.2Vp-p ( H ) | ⑯ PAL, NTSC<br>0.5Vp-p ( H ) | ⑯ NTSC 3.58/4.43<br>0.5Vp-p ( H ) |

As to the voltage value shown by the mark ※ on the Schematic Diagram, see the another list.

| | | PAL | SECAM | NTSC3.58 | NTSC4.43 |
|---|---|---|---|---|---|
| IC301 | (8) | 0.1 | 0.1 | 5.8 | 0.1 |
| | (26) | 4.7 | 6.8 | 5.1 | 6.5 |
| IC331 | (19) | 3.1 | 3.6 | 3.1 | 2.8 |
| | (21) | 3.0 | 3.5 | 2.9 | 2.7 |
| | (22) | 5.6 | 5.6 | 7.1 | 7.2 |
| | (23) | 7.5 | 7.0 | 5.6 | 5.6 |
| | (25) | 0.1 | 0.1 | 0.1 | 5.8 |
| | (26) | 0.1 | 0.1 | 5.8 | 0.1 |
| | (27) | 0.1 | 5.8 | 0.1 | 0.1 |
| | (28) | 5.9 | 0.1 | 0.1 | 0.1 |
| Q331 | (B) | 0.1 | 0.1 | 5.8 | 0.1 |
| | (C) | 0.3 | 0.4 | 0 | 0.8 |
| Q333 | (B) | 4.4 | 4.4 | 4.4 | 4.4 |
| Q334 | (B) | 4.9 | 0.1 | 4.8 | 4.8 |
| Q335 | (B) | 0.1 | 4.8 | 0.1 | 0.1 |

KV-C2161D/C2561D/C2961D
RM-816

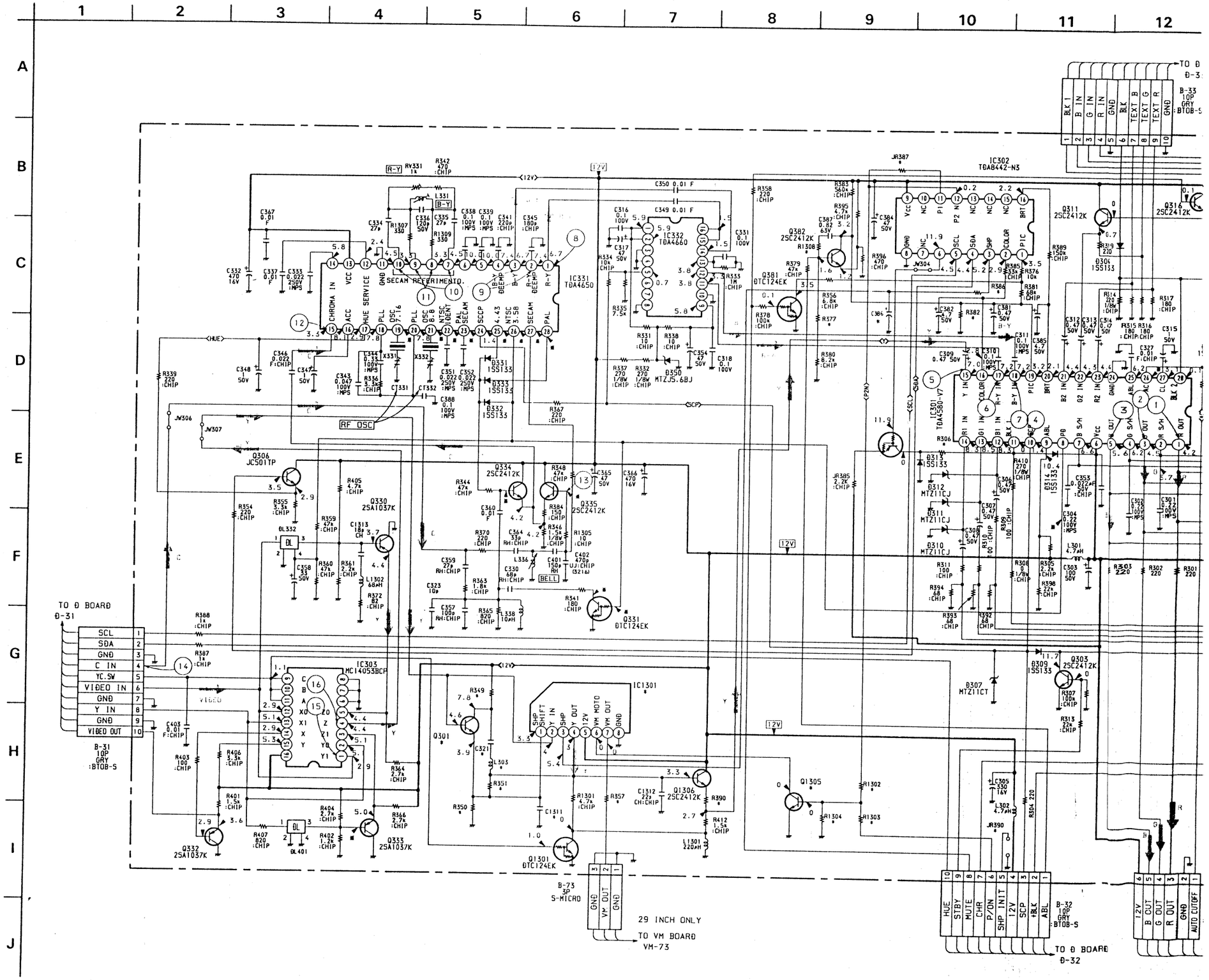
• B BOARD

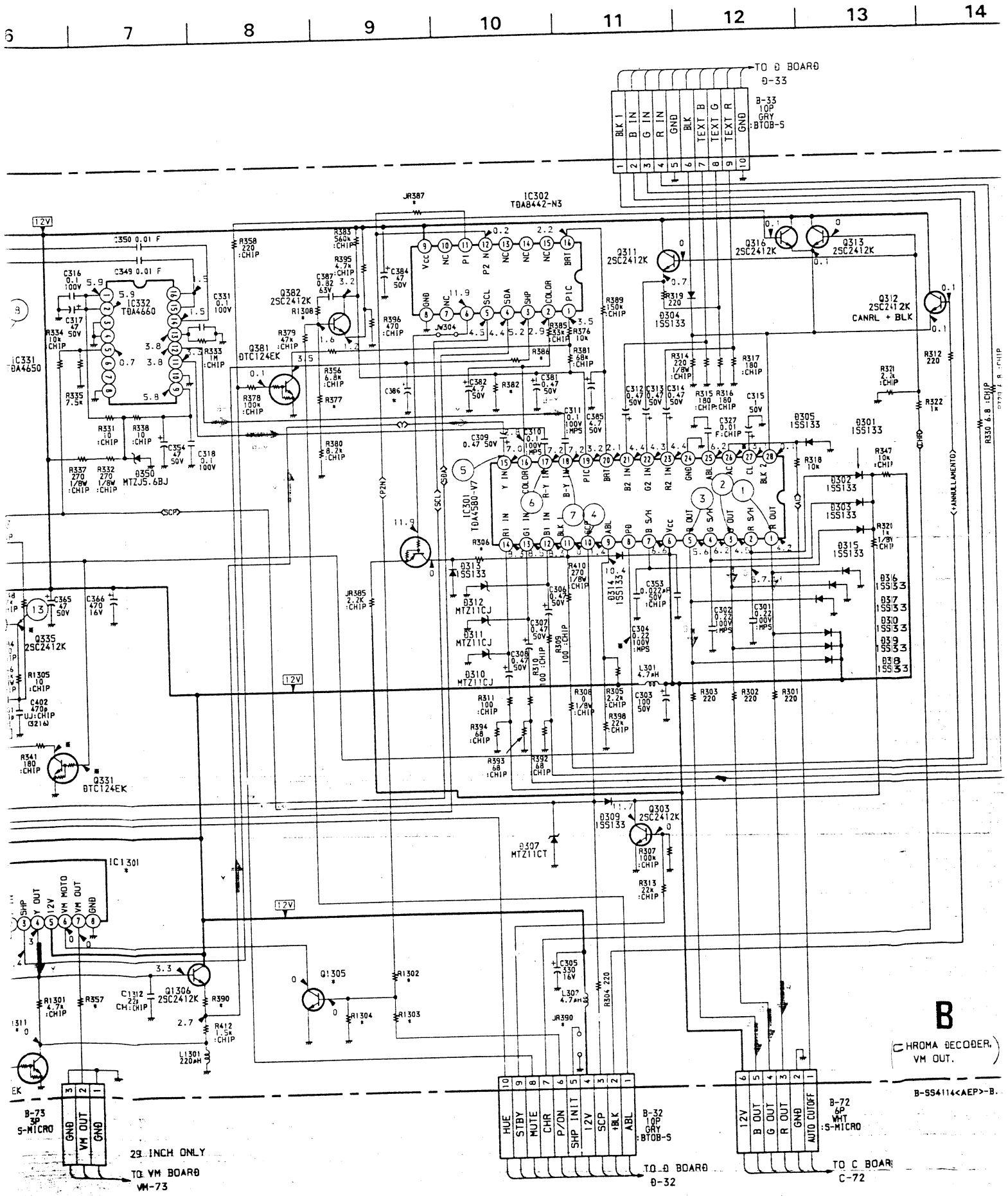
| | | |
|---|---|---|
| IC301 | TDA4580-V7 | VIDEO PROCESSOR |
| IC302 | TDA8442-N3 | D/A CONVERTER I ² C BUS |
| IC303 | MC14053BCP | Y/C COMP SW |
| IC331 | TDA4650 | COLOR PROCESSOR |
| IC332 | TDA4660-V2 | 1H-DEALY |
| IC1301 | HIC2110 | SHARPNESS CONTROL (29 INCH ONLY) |
| | | |
| Q301 | 2SC2412K | Y AMP (21/25 INCH ONLY) |
| Q303 | 2SC2412K | STBY SW |
| Q305 | DTA144EK | ANTI PRIORITY SCART |
| Q306 | JC501 | VIDEO BUF (HUE) |
| Q311 | 2SC2412K | ON SCREEN DISPLAY SW |
| Q312 | 2SC2412K | CANRL + BLK |
| Q313 | 2SC2412K | ON SCREEN DISPLAY |
| Q316 | 2SC2412K | FAS PICTURE MUTE SW |
| Q330 | 2SA1037K | VIDEO AMP |
| Q331 | DTC124EK | NTSC SW |
| Q332 | 2SA1037K | VIDEO BUFF |
| Q333 | 2SA1037K | Y AMP |
| Q334 | 2SC2412K | PAL/NTSC SW |
| Q335 | 2SC2412K | SECAM SW |
| Q381 | DTC124EK | MUTE |
| Q382 | 2SC2412K | ABL |
| Q1301 | DTC124EK | Y BUFF |
| Q1305 | 2SC2412K | Y OUT (29 INCH ONLY) |
| Q1306 | 2SC2412K | Y OUT |
| | | |
| D301 | 1SS133 | ACO AT STBY |
| D302 | 1SS133 | ACO AT STBY |
| D303 | 1SS133 | ACO AT STBY |
| D304 | 1SS133 | DECOUPLING BLK |
| D305 | 1SS133 | PROT |
| D307 | MTZ11C | PROT |
| D309 | 1SS133 | PROT |
| D310 | MTZ11C | PROT |
| D311 | MTZ11C | PROT |
| D312 | MTZ11C | PROT |
| D313 | 1SS133 | PROT |
| D314 | 1SS133 | PROT |
| D315 | 1SS133 | PROT |
| D316 | 1SS133 | PROT |
| D317 | 1SS133 | PROT |
| D318 | 1SS133 | PROT |
| D319 | 1SS133 | PROT |
| D320 | 1SS133 | PROT |
| D331 | 1SS133 | SECAM SW |
| D332 | 1SS133 | SECAM SW |
| D333 | 1SS133 | SECAM SW |
| D350 | MTZJ5.6C | PROT |

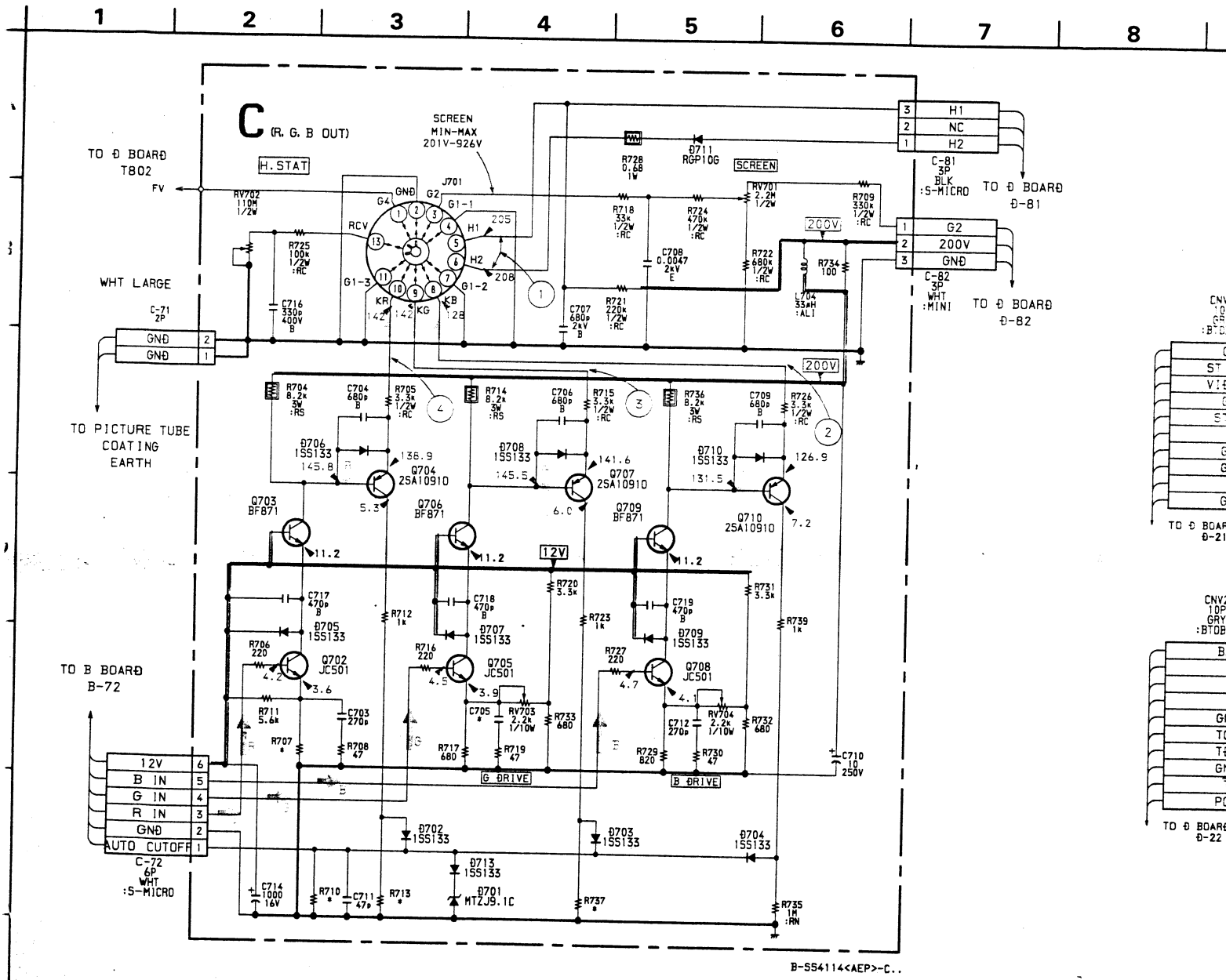
B BOARD * MARK

| | 21" | 25" | 29" |
|---|---|---|---|
| B-73 | - | - | 3P |
| | | | |
| C321 | 100P | 100P | - |
| C386 | - | - | 4.7 50V |
| C1311 | 56P | 56P | 33P |
| | | | |
| IC1301 | - | - | HIC2110 |
| | | | |
| JR387 | - | - | 0 : CHIP |
| JR390 | 0 : CHIP | 0 : CHIP | - |
| | | | |
| L303 | 5.6 μH | 5.6 μH | - |
| | | | |
| Q301 | 2SC2412K | 2SC2412K | - |
| Q1305 | - | - | 2SC2412K |
| | | | |
| R306 | - | - | 0 : CHIP |
| R349 | 680 | 680 | - |
| R350 | 680 | 680 | - |
| R351 | 220 | 680 | - |
| R357 | - | - | 220 |
| R377 | 330 | 330 | 1.8K |
| R382 | 270K | 220K | 220K |
| R386 | - | - | 3.3K |
| R390 | 220 | 220 | 100 |
| R1302 | - | - | 47K |
| R1303 | - | - | 47K |
| R1304 | - | - | 100K |
| R1308 | 0 | 0 | 4.7K |

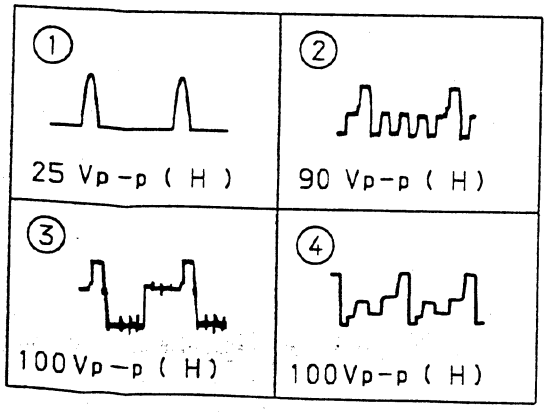
- : NOT MOUNTED




6 7 8 9 10 11 12 13 14
TO B BOARD
B-33
B-33 10P GRY :BTOB-S
BLK I
B IN
G IN
R IN
GND
BLK
TEXT B
TEXT G
TEXT R
GND
IC302 T0A8442-N3
IC331 T0A4650
IC332 T0A4660
IC301 T0A4580-V7
Q311 2SC2412K
Q312 2SC2412K CANRL + BLK
Q313 2SC2412K
Q316 2SC2412K
Q335 2SC2412K
Q303 2SC2412K
Q1306 2SC2412K
Q381 DTC124EK
Q331 DTC124EK
Q382 2SC2412K
Q350 MTZJ5.6BJ
D304 1SS133
D305 1SS133
D301 1SS133
D302 1SS133
D303 1SS133
D315 1SS133
D316 1SS133
D317 1SS133
D310 1SS133
D309 1SS133
D314 1SS133
D312 MTZ11CJ
D311 MTZ11CJ
D310 MTZ11CJ
D307 MTZ11CT
JR387
JR385
JR390
JW304
L301 4.7mH
L302 4.7mH
L1301 220mH
12V
(SCP)
(SCL)
(SDA)
(P2N)
(CHR)
(ANNULLAMENTO)
IC1301
SHP
Y OUT
12V
VM MOTO
VM OUT
GND
B-73 3P S-MICRO
GND
VM OUT
GND
29 INCH ONLY
TO VM BOARD VM-73
B-32 10P GRY :BTOB-S
HUE
STBY
MUTE
CHR
P/ON
SHP INIT
12V
SCP
+BLK
ABL
TO B BOARD B-32
B-72 6P WHT :S-MICRO
12V
B OUT
G OUT
R OUT
GND
AUTO CUTOFF
TO C BOARD C-72
B
CHROMA DECODER, VM OUT.
B-SS4114<AEP>-B.




## • WAVEFORMS C BOARD



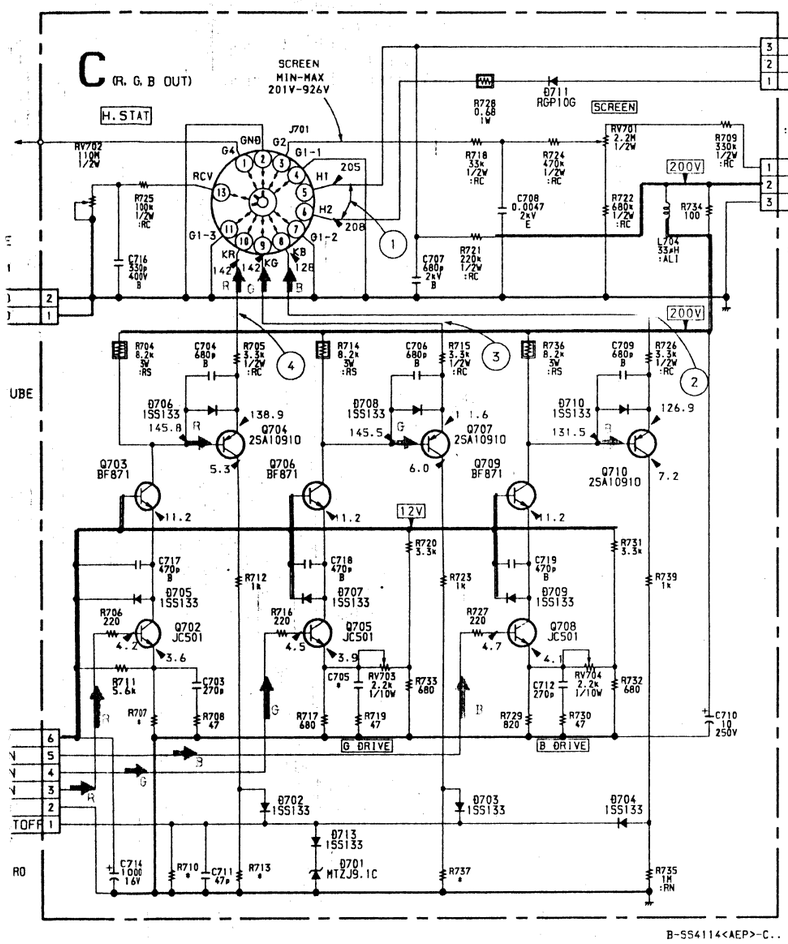

## • C BOARD

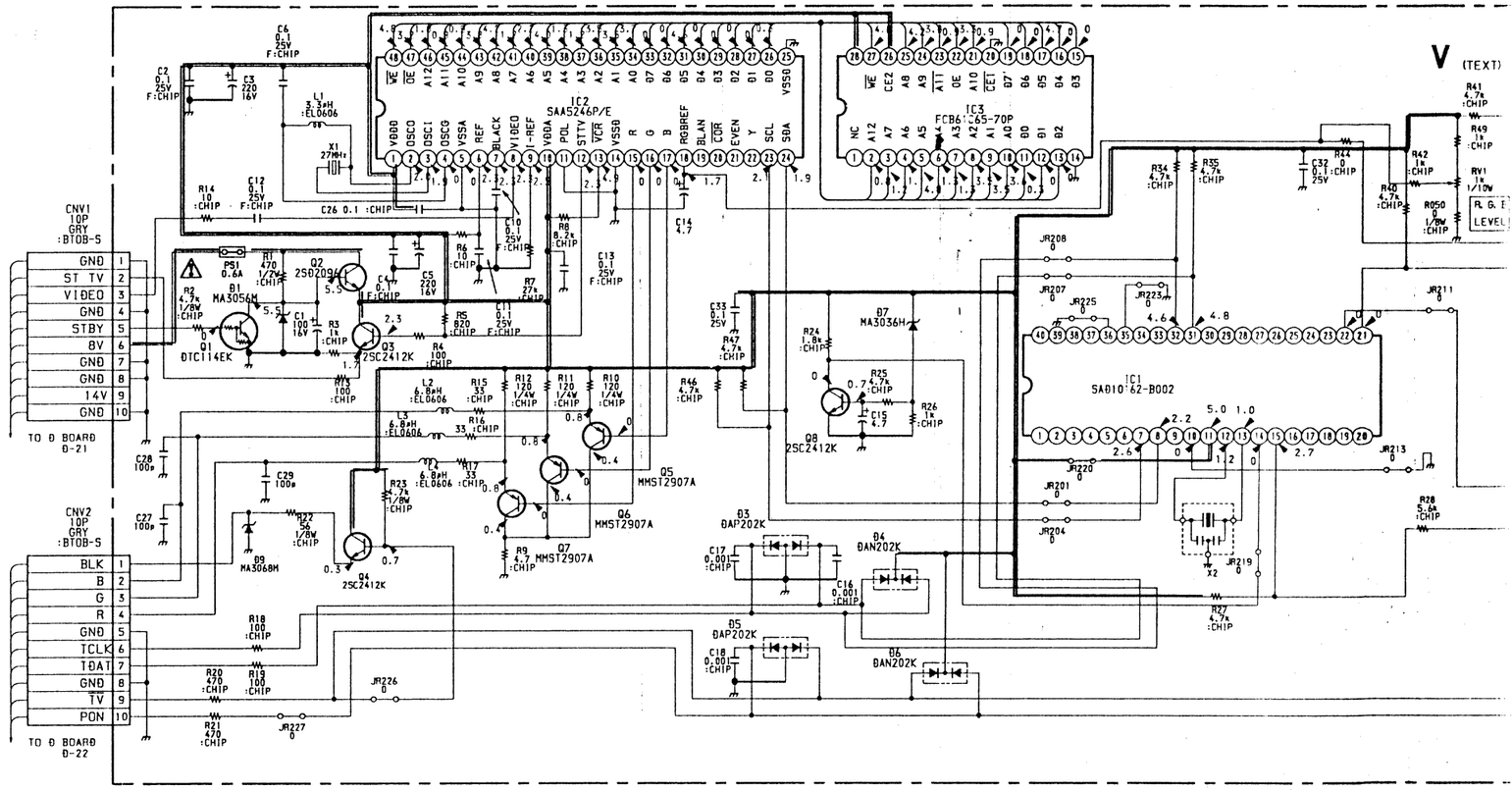
| | | |
|---|---|---|
| Q702 | JC501 | R DRIVE |
| Q703 | BF871 | R OUT |
| Q704 | 2SA1091O | ACO MEASURING |
| Q705 | JC501 | G DRIVE |
| Q706 | BF871 | G OUT |
| Q707 | 2SA1091O | ACO MEASURING |
| Q708 | JC501 | B DRIVE |
| Q709 | BF871 | B OUT |
| Q710 | 2SA1091O | ACO MEASURING |
| | | |
| D701 | MTZJ9.1C | PROTECT |
| D702 | 1SS133 | PROTECT |
| D703 | 1SS133 | PROTECT |
| D704 | 1SS133 | PROTECT |
| D705 | 1SS133 | PROTECT |
| D706 | 1SS133 | PROTECT |
| D707 | 1SS133 | PROTECT |
| D708 | 1SS133 | PROTECT |
| D709 | 1SS133 | PROTECT |
| D710 | 1SS133 | PROTECT |
| D711 | RGP10G | HEATING VOLTAGE REC |
| D713 | 1SS133 | PROTECT |

## C BOARD

| | |
|---|---|
| C705 | |
| | |
| R707 | |
| R710 | |
| R713 | |
| R737 | |

KV-C2161D/C2561D/C2961D
RM-816

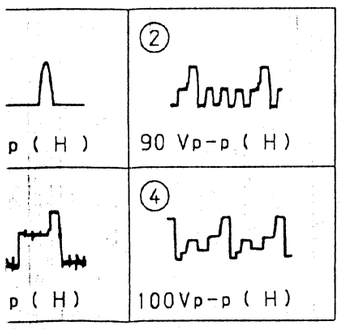



B-SS4114<AEP>-C..

B-SS4114<AEP>-V

### ORMS C BOARD




### • C BOARD

| | | |
|---|---|---|
| Q702 | JC501 | R DRIVE |
| Q703 | BF871 | R OUT |
| Q704 | 2SA1091O | ACO MEASURING |
| Q705 | JC501 | G DRIVE |
| Q706 | BF871 | G OUT |
| Q707 | 2SA1091O | ACO MEASURING |
| Q708 | JC501 | B DRIVE |
| Q709 | BF871 | B OUT |
| Q710 | 2SA1091O | ACO MEASURING |
| | | |
| D701 | MTZJ9.1C | PROTECT |
| D702 | 1SS133 | PROTECT |
| D703 | 1SS133 | PROTECT |
| D704 | 1SS133 | PROTECT |
| D705 | 1SS133 | PROTECT |
| D706 | 1SS133 | PROTECT |
| D707 | 1SS133 | PROTECT |
| D708 | 1SS133 | PROTECT |
| D709 | 1SS133 | PROTECT |
| D710 | 1SS133 | PROTECT |
| D711 | RGP10G | HEATING VOLTAGE REC |
| D713 | 1SS133 | PROTECT |

### C BOARD * MARK

| | 21″ | 25″ | 29″ |
|---|---|---|---|
| C705 | 180P | 220P | 220P |
| | | | |
| R707 | 430 | 390 | 390 |
| R710 | 100K | 68K | 68K |
| R713 | 160K | 120K | 120K |
| R737 | 390K | 820K | 470K |

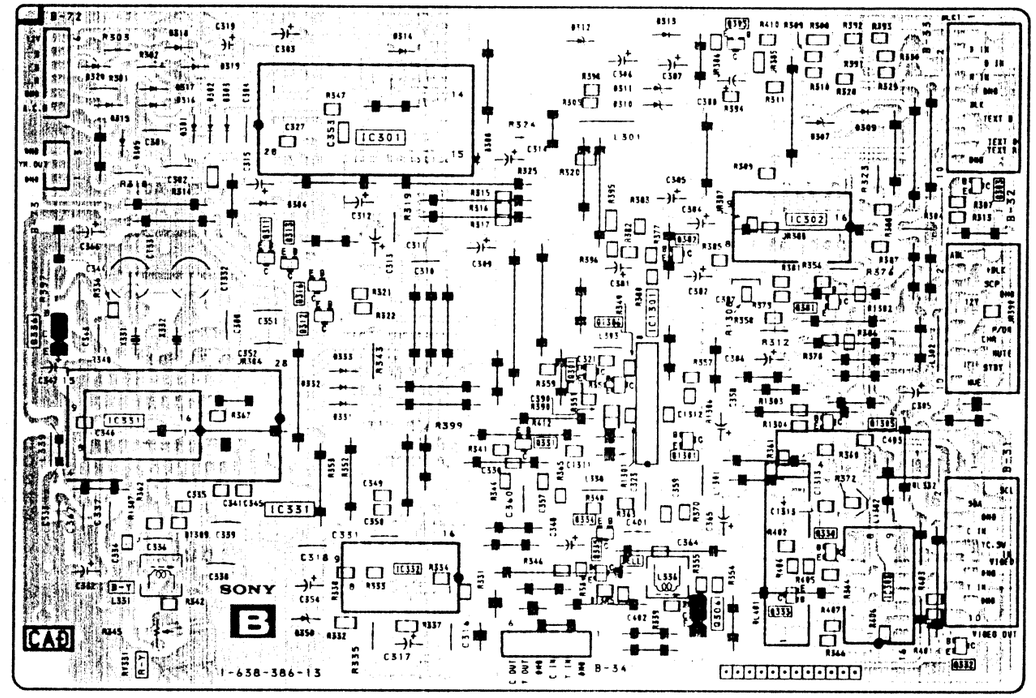
– : NOT MOUNTED

### • V BOARD

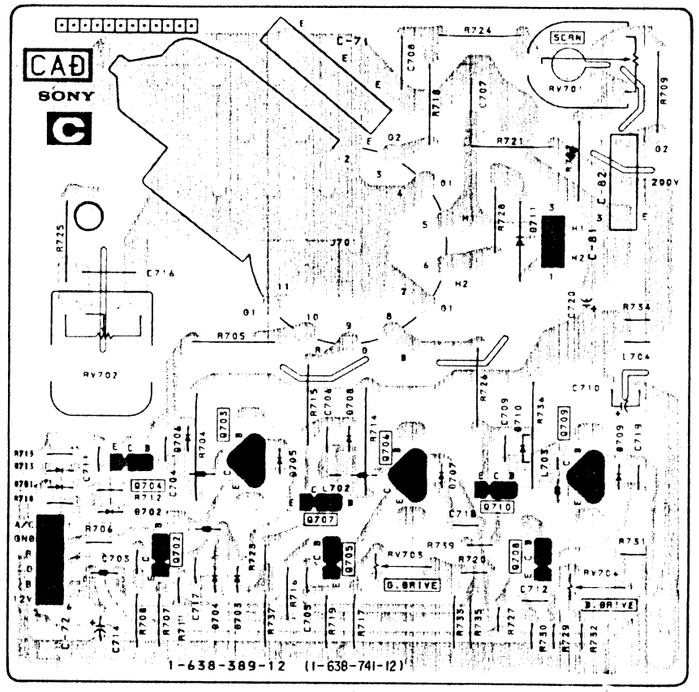
| | | |
|---|---|---|
| IC1 | SDA20162-B002 | MICRO-CONT |
| IC2 | SAA5246P/E | IVT |
| IC3 | FCB61C65-70P | STATIC-RAM |
| | | |
| Q1 | DTC114EK | STAD BY |
| Q2 | 2SD2096 | 5V REG |
| Q3 | 2SC2412K | SYNC BUFFER |
| Q4 | 2SC2412K | BLK OUT |
| Q5 | MMST2907A | B OUT |
| Q6 | MMST2907A | G OUT |
| Q7 | MMST2907A | R OUT |
| Q8 | 2SC2412K | RESET |
| | | |
| D1 | MA3056M | 5V REG |
| D3 | DAP202K | PROTEC |
| D4 | DAN202K | PROTEC |
| D5 | DAP202K | PROTEC |
| D6 | DAN202K | PROTEC |
| D7 | MA3036H | PROTEC |
| D9 | MA3068M | PROTEC |

**B** [CHROMA DECODER VM OUT] **C** [R. G. B OUT] **V** [TELE TEXT]

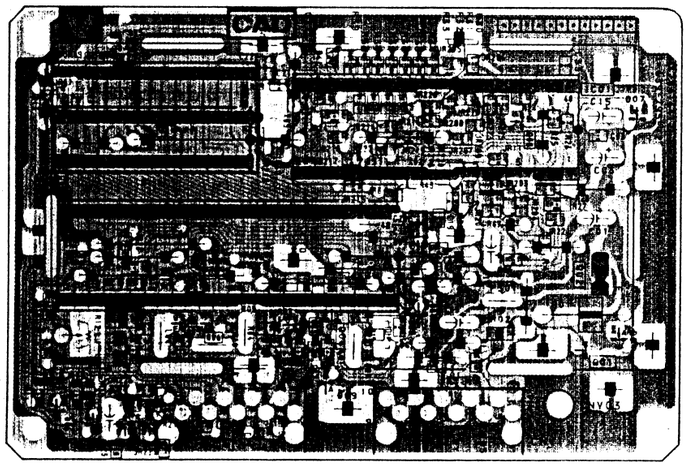
—B Board—




—C Board—



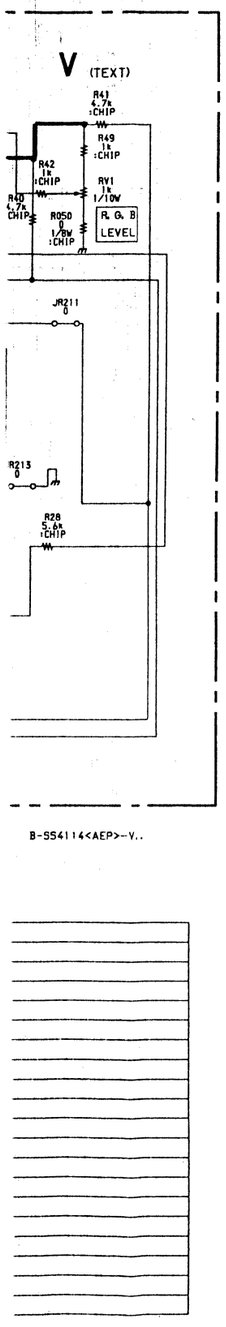

—V Board—



• ▒▒▒: Pattern from the side which enables seeing.

• ▓▓▓: Pattern of the rear side.

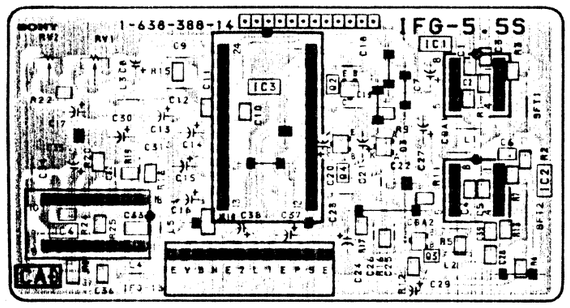
V (TEXT)



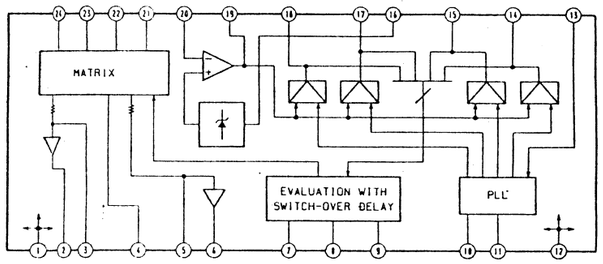

B-5541 14<AEP>-V..

# IFG [SIF]

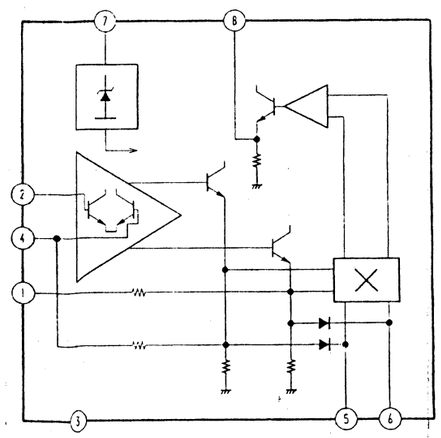
– IFG-5.5S Board –




IFG-5.5S BOARD IC3 TDA6600

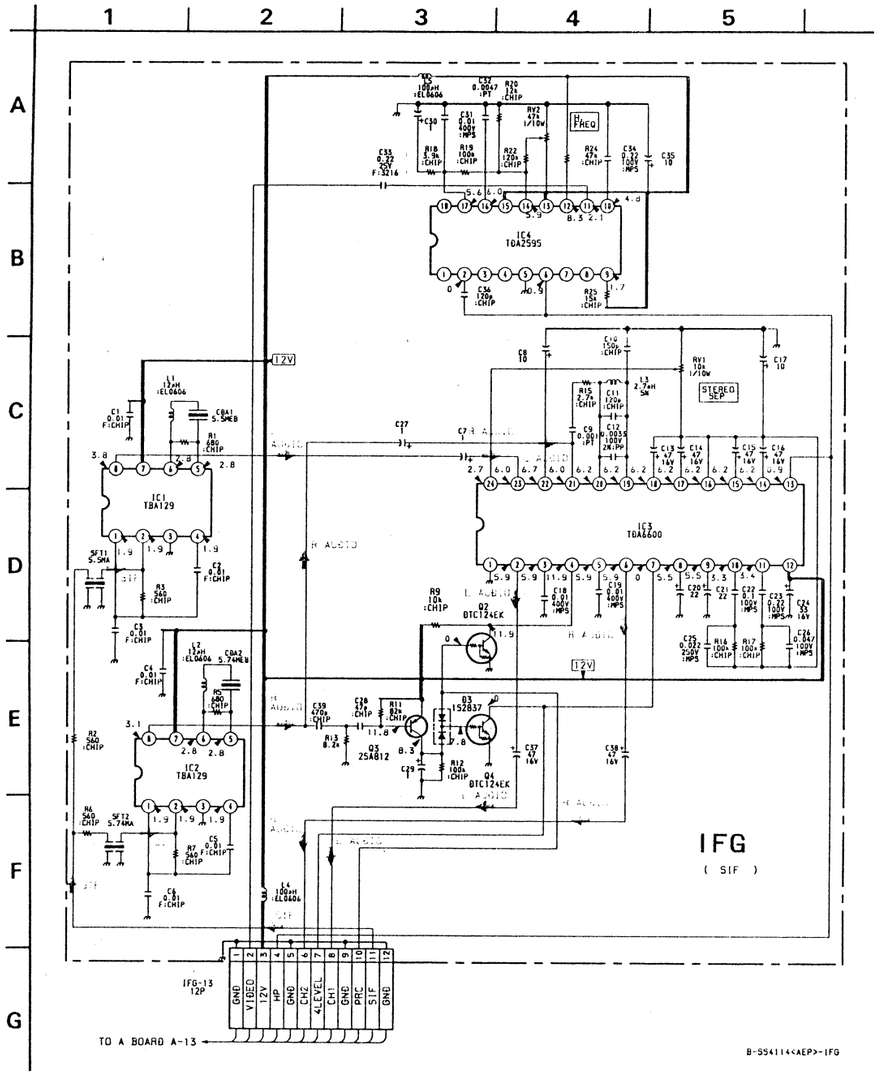



IFG-5.5S BOARD IC1/2 TBA129

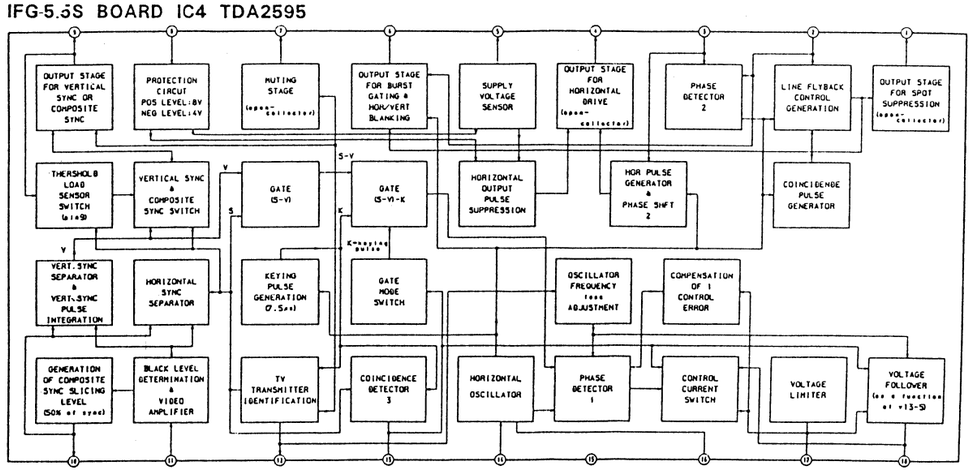




KV-C2161D/C2561D/C2961D
RM-816



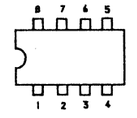

IFG-5.5S BOARD IC4 TDA2595


OUTPUT STAGE FOR VERTICAL SYNC OR COMPOSITE SYNC
PROTECTION CIRCUIT POS LEVEL:8V NEG LEVEL:4V
MUTING STAGE
OUTPUT STAGE FOR BURST GATING & HOR/VERT BLANKING
SUPPLY VOLTAGE SENSOR
OUTPUT STAGE FOR HORIZONTAL DRIVE
PHASE DETECTOR 2
LINE FLYBACK CONTROL GENERATION
OUTPUT STAGE FOR SPOT SUPPRESSION
THERSHOLD LOAD SENSOR SWITCH
VERTICAL SYNC & COMPOSITE SYNC SWITCH
GATE (S-V)
GATE (S-V)-K
HORIZONTAL OUTPUT PULSE SUPPRESSION
HOR PULSE GENERATOR & PHASE SHIFT 2
COINCIDENCE PULSE GENERATOR
VERT. SYNC SEPARATOR & VERT. SYNC PULSE INTEGRATION
HORIZONTAL SYNC SEPARATOR
KEYING PULSE GENERATION (7.5us)
GATE MODE SWITCH
OSCILLATOR FREQUENCY FREE ADJUSTMENT
COMPENSATION OF I CONTROL ERROR
GENERATION OF COMPOSITE SYNC SLICING LEVEL (50% of sync)
BLACK LEVEL DETERMINATION & VIDEO AMPLIFIER
TV TRANSMITTER IDENTIFICATION
COINCIDENCE DETECTOR 3
HORIZONTAL OSCILLATOR
PHASE DETECTOR 1
CONTROL CURRENT SWITCH
VOLTAGE LIMITER
VOLTAGE FOLLOWER



## 5-4. SEMICONDUCTORS

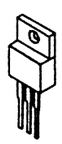
BA4558
NE5532P
RC4558P
SDA2546
TBA129
TDA1543
TEA2014A
TEA2031A



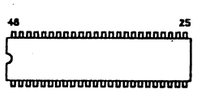
CXA1114P
CXK5864BP-10L
FCB61C65-70P
MAB8461P-W208
SAA7280P/M3
TC5565APL-15L
TDA4580-V7
TDA4650-V4
TDA6200
TEA2028B

HD14053BFP
MC14051BCP
PCF8574
TDA4660V2
TDA8442-N3
TEA2260
μ PD4053BC

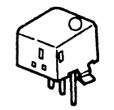
LM7812CT
TEA7605



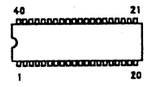
SAA5246P/E/M4A
SAA5246P/E
SAA5246P/H



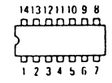
SBX1610-11



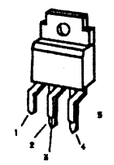
SDA20560-A012



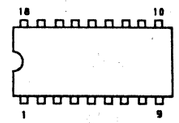
SN74LS02N



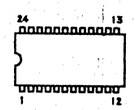
TDA2050



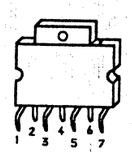
TDA2595-V9



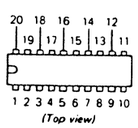
TDA6600-2



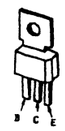
TDA8170



TDA8732



BF871

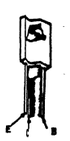


DTA144EK
DTC114EK
DTC124EK
DTC144EK
2SA1162-G
2SB1295-UL6
2SC1623-L5L6

DTC144ES

2SA1091-0
2SD789-34

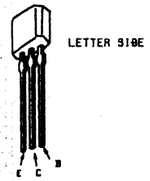
2SA1220A-P
2SC2688-LK



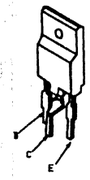
KV-C2161D/C2561D/C2961D
RM-816

2SB734-34
2SD773-34
2SD774-34

2SC2785-HFE



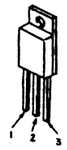

2SD1548-LB
2SD1941-06



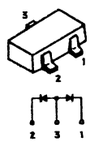
2SD2096-EF

BB405B
BB809
EGP20G
ERC06-15S
HZS11NB3TD
RU-3AM

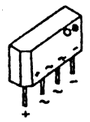
CTU-12S



DAP202K

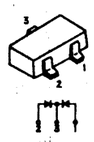


D4SB60L-F



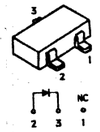
ERD29-08J

MA152WK



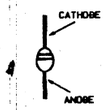
MTZJ-13B
MTZJ-15A
MTZJ-3.9B
MTZJ-33A
MTZJ-36D
MTZN-10C
RD11ES-B3
RD5.6ESB2
RD6.2ES-B2
RD6.8ESB2
RD7.5ESB2
RD9.1ESB3
UZ-4.7BSC
1SS119

RD3.6M-B2
RD5.6M-B2
RD6.8M-B2

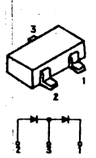


RGP02-17

U05G




1SS226





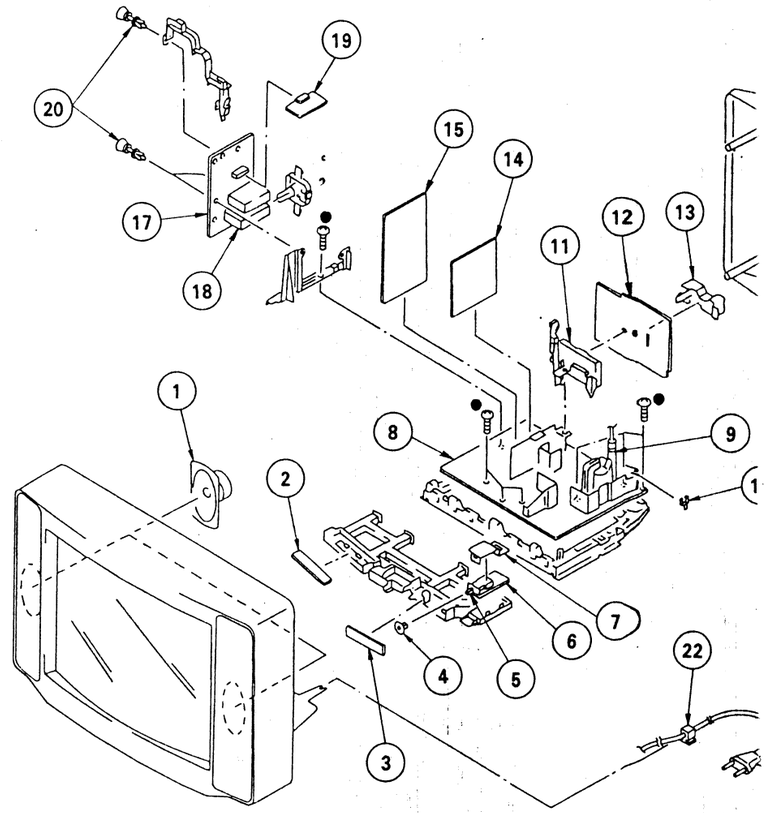
# SECTION 6
# EXPLODED VIEWS

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

## 6-1. CHASSIS (KV-C2161D)

● : BVTP 3 × 12 7-685-648-79
■ : BVTP 4 × 16 7-685-663-79




| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| 1 | 1-544-525-11 | SPEAKER | |
| 2 | *1-638-391-11 | H1 BOARD | |
| 3 | *1-638-392-11 | H2 BOARD | |
| 4 | 4-386-611-01 | COVER, SWITCH | |
| 5 | ⚠1-571-433-12 | SWITCH, PUSH (AC POWER) | |
| 6 | *1-638-390-11 | F BOARD | |
| 7 | 4-200-757-01 | COVER, POWER SWITCH | |
| 8 | *A-1642-035-A | D BOARD, COMPLETE | |
| 9 | ⚠1-439-416-51 | TRANSFORMER ASSY, FLYBACK (UX-1650) | |
| 10 | *3-646-071-00 | HOLDER, WIRE | |
| 11 | *4-[illegible]-624-11 | BRACKET, J | |
| 12 | *A-1651-018-A | | |
| 13 | 4-200-014-01 | | |
| 14 | *A-1645-013-A | | |
| 15 | *A-1621-046-A | | |
| 16 | 4-033-072-01 | | |
| 17 | *A-1632-022-A | | |
| 18 | ⚠1-465-301-11 | | |
| 19 | *A-1654-004-A | | |
| 20 | 4-386-618-01 | | |
| 21 | ⚠1-590-501-11 | | |
| 22 | ⚠4-389-201-03 | | |

# SECTION 6
# EXPLODED VIEWS

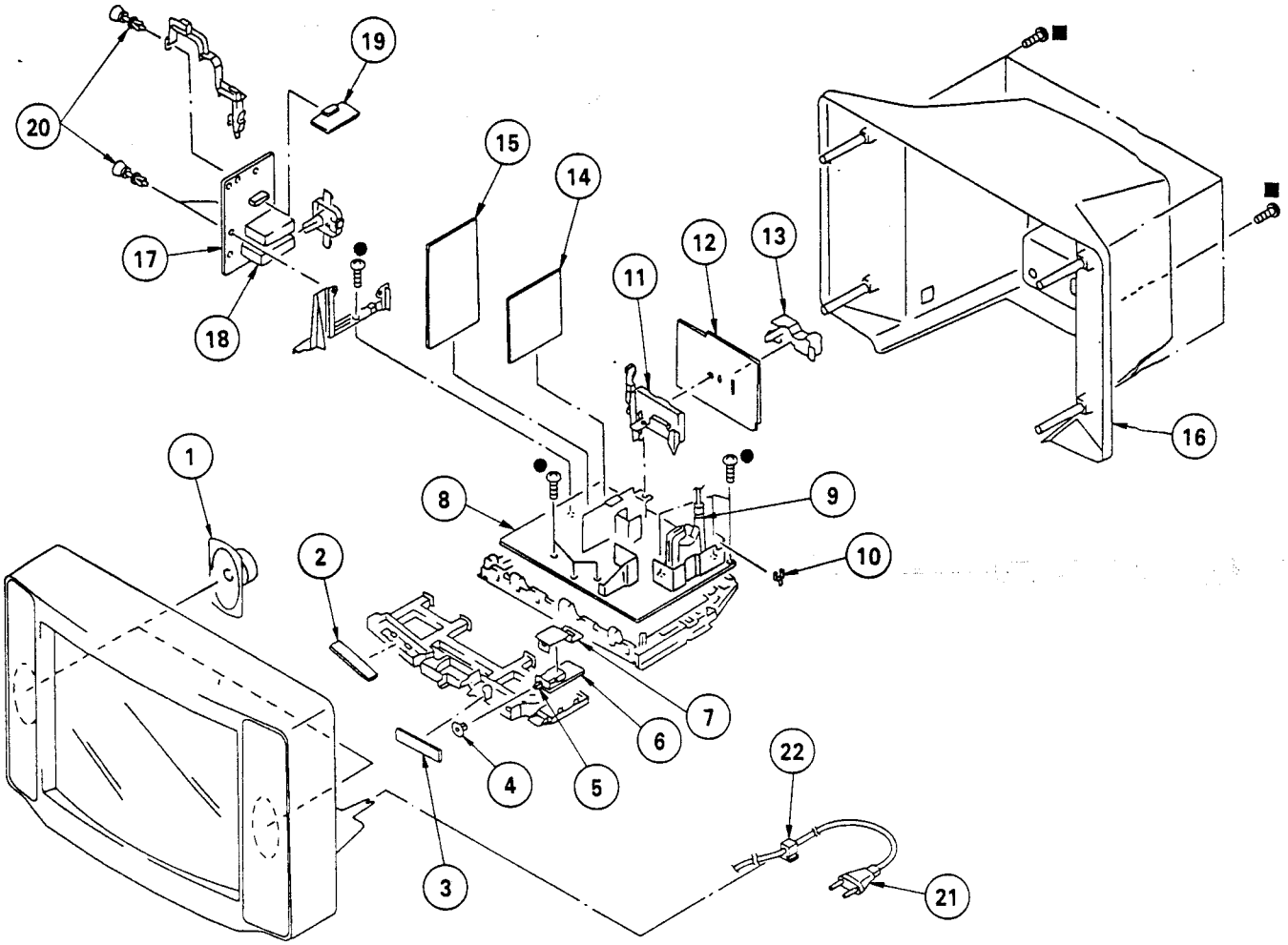
NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

## 6-1. CHASSIS (KV-C2161D)

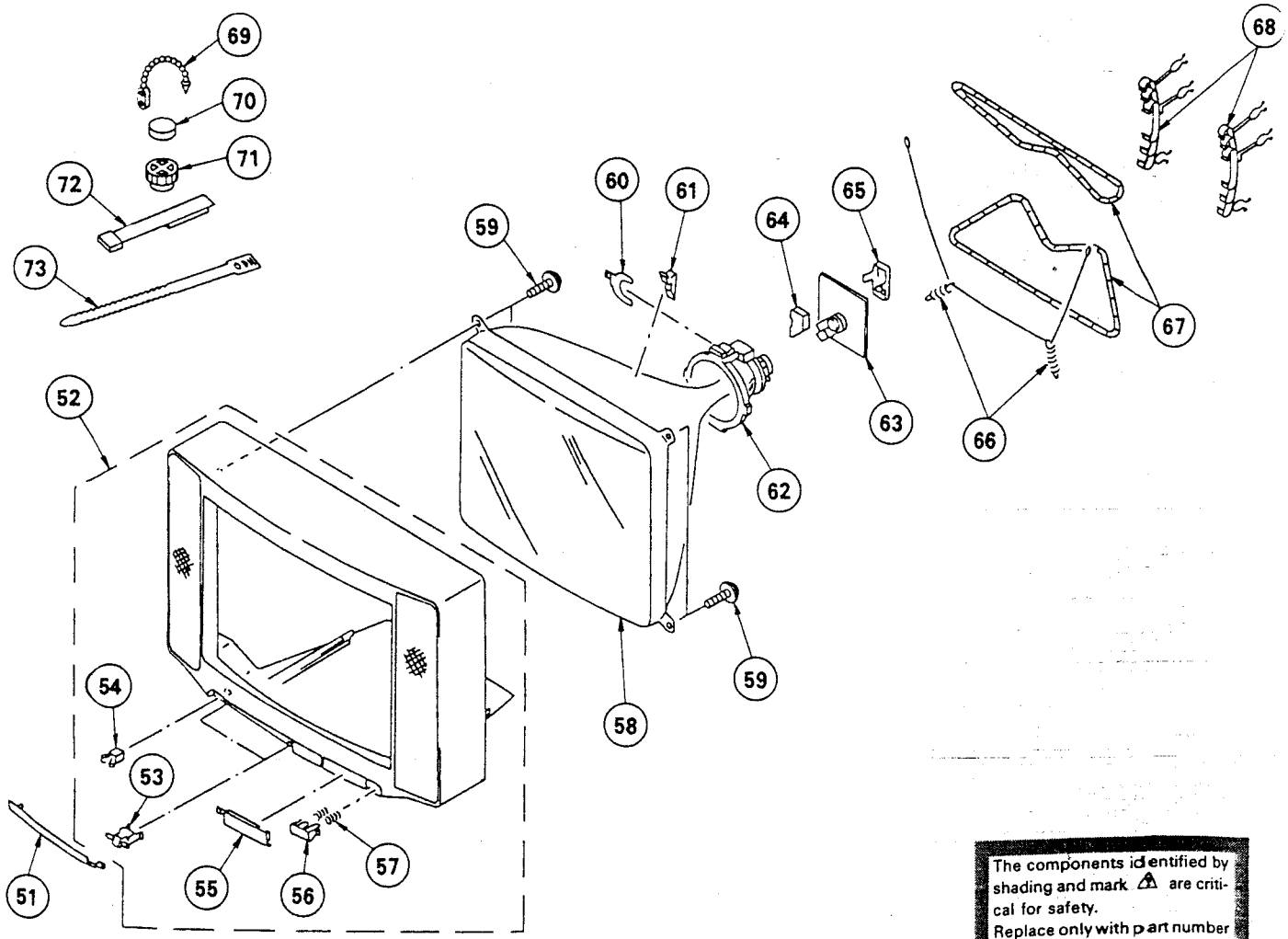
● : BVTP 3 × 12 7-685-648-79

■ : BVTP 4 × 16 7-685-663-79




| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| 1 | 1-544-525-11 | SPEAKER | |
| 2 | *1-638-391-11 | H1 BOARD | |
| 3 | *1-638-392-11 | H2 BOARD | |
| 4 | 4-386-611-01 | COVER, SWITCH | |
| 5 | ⚠1-571-433-12 | SWITCH, PUSH (AC POWER) | |
| 6 | *1-638-390-11 | F BOARD | |
| 7 | 4-200-757-01 | COVER, POWER SWITCH | |
| 8 | *A-1642-035-A | D BOARD, COMPLETE | |
| 9 | ⚠1-439-416-51 | TRANSFORMER ASSY, FLYBACK (UX-1650) | |
| 10 | *3-646-071-00 | HOLDER, WIRE | |
| 11 | *4-386-624-11 | BRACKET, J | |
| 12 | *A-1651-018-A | J1 BOARD, COMPLETE | |
| 13 | 4-200-014-01 | BRACKET, TERMINAL | |
| 14 | *A-1645-013-A | V BOARD, COMPLETE | |
| 15 | *A-1621-046-A | B BOARD, COMPLETE | |
| 16 | 4-033-072-01 | COVER, REAR | |
| 17 | *A-1632-022-A | A BOARD, COMPLETE | |
| 18 | ⚠1-465-301-11 | TUNER, ET (UV-816(PLL)) | |
| 19 | *A-1654-004-A | IFG BOARD, COMPLETE | |
| 20 | 4-386-618-01 | RIVET, T TYPE | |
| 21 | ⚠1-590-501-11 | CORD, POWER (WITH NOISE FILTER) | |
| 22 | ⚠4-389-201-03 | HOLDER, AC CORD | |

## 6-2. PICTURE TUBE (KV-C2161D)



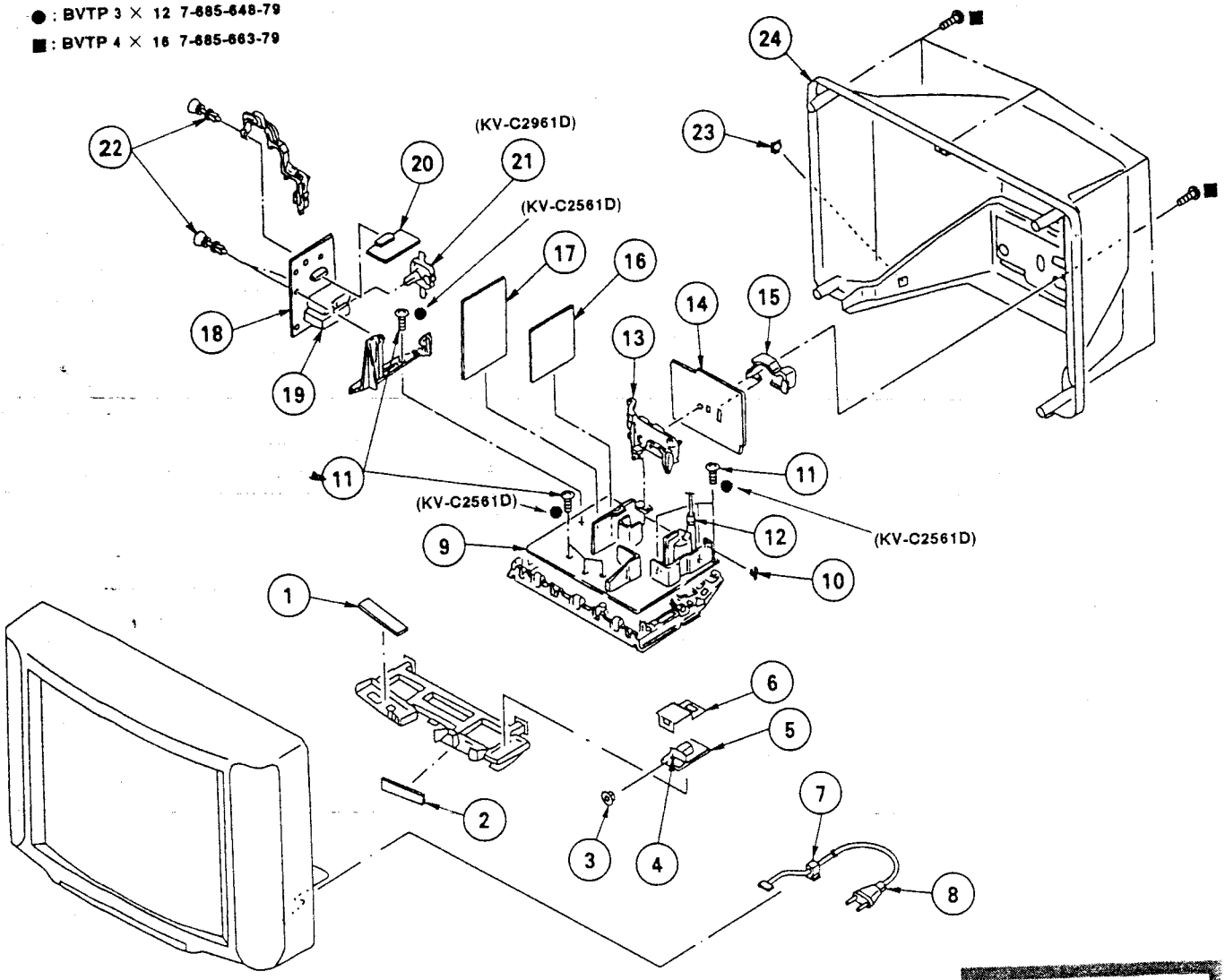

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| 51 | X-4029-863-1 | DOOR ASSY | |
| 52 | X-4029-864-1 | CABINET ASSY (WITH BEZEL ASSY) | 53~57 |
| 53 | 3-703-035-11 | SHAFT, LID | |
| 54 | 4-392-036-01 | CATCHER, PUSH | |
| 55 | 4-032-993-01 | WINDOW, ORNAMENTAL | |
| 56 | 4-032-990-01 | BUTTON, POWER | |
| 57 | 4-329-112-51 | SPRING | |
| 58 | ⚠ 8-738-758-05 | PICTURE TUBE (A51JXH61X) | |
| 59 | 4-036-189-01 | SCREW (S), PT | |
| 60 | 1-452-277-00 | MAGNET, BMC | |
| 61 | 3-704-495-01 | SPACER, DY | |
| 62 | ⚠ 1-451-295-11 | DEFLECTION YOKE (Y21PFA2) | |
| 63 | *A-1638-014-A | C BOARD, COMPLETE | |
| 64 | *4-379-167-01 | COVER (MAIN), CV | |
| 65 | *4-379-160-01 | COVER (REAR LID), CV | |
| 66 | 4-200-433-01 | SPRING, EXTENSION | |
| 67 | ⚠ 1-426-383-11 | COIL, DEMAGNETIZATION | |
| 68 | *4-386-622-01 | BAND, DGC | |
| 69 | 4-308-870-00 | CLIP, LEAD WIRE | |
| 70 | 1-452-032-00 | MAGNET, DISK; 10MM | |
| 71 | 1-452-094-00 | MAGNET, ROTATABLE DISK; 15MM | |
| 72 | X-4309-608-0 | PERMALLOY ASSY, CONVERGENCE | |
| 73 | 3-701-007-00 | BAND, BINDING | |

## 6-3. CHASSIS (KV-C2561D/C2961D)

● : BVTP 3 × 12 7-685-648-79

■ : BVTP 4 × 16 7-685-663-79

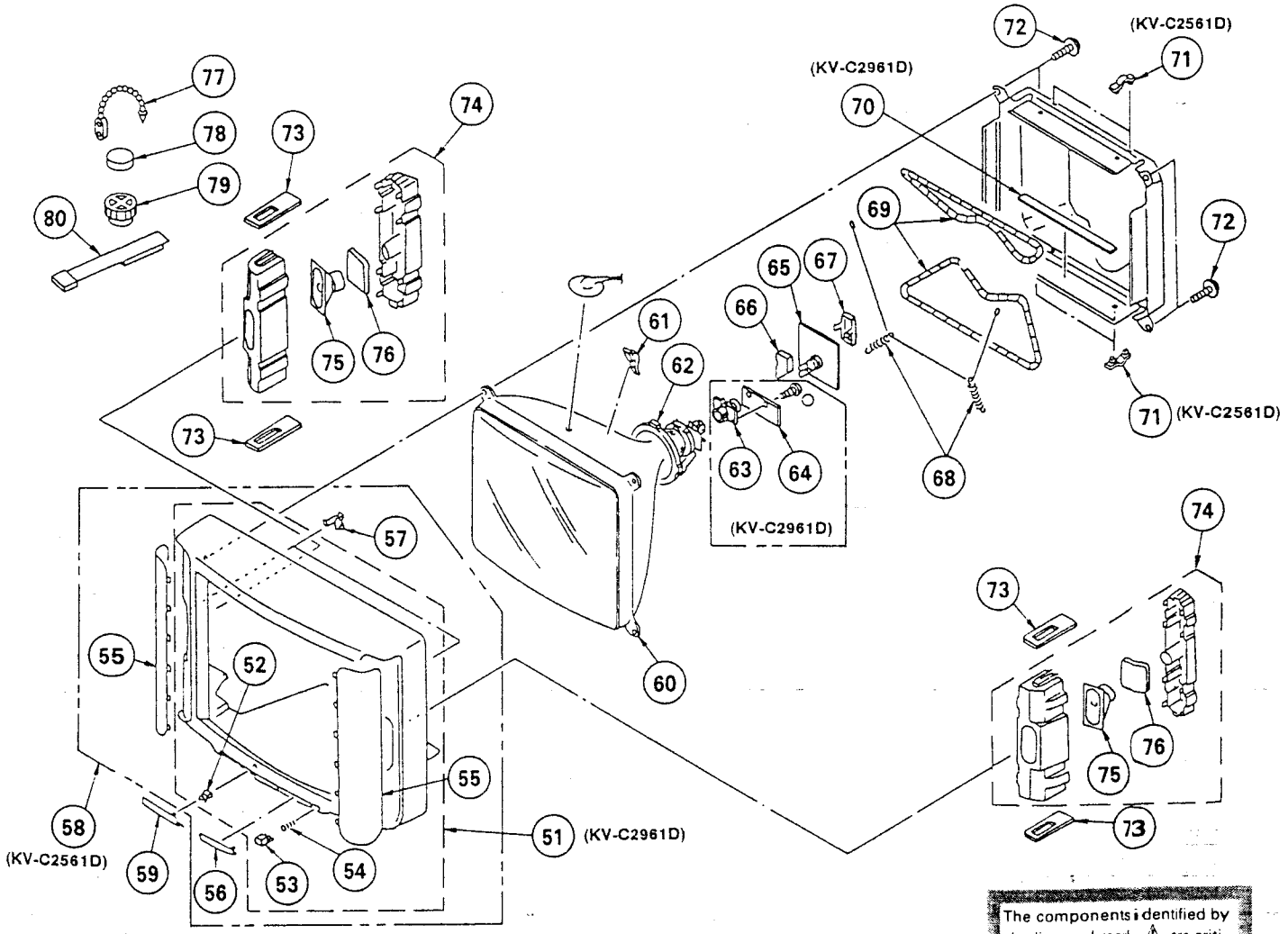



The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| 1 | *1-638-744-11 | H1 BOARD (KV-C2561D) | |
| | *1-638-391-11 | H1 BOARD (KV-C2961D) | |
| 2 | *1-638-745-11 | H2 BOARD (KV-C2561D) | |
| | *1-638-392-11 | H2 BOARD (KV-C2961D) | |
| 3 | 4-386-611-11 | COVER, SWITCH (KV-C2561D) | |
| | 4-386-611-01 | COVER, SWITCH (KV-C2961D) | |
| 4 | ⚠ 1-571-433-12 | SWITCH, PUSH (AC POWER) | |
| 5 | *1-638-743-11 | F BOARD (KV-C2561D) | |
| | *1-638-390-11 | F BOARD (KV-C2961D) | |
| 6 | 4-200-274-11 | COVER, POWER SWITCH (KV-C2561D) | |
| | 4-200-952-01 | COVER, POWER SWITCH (KV-C2961D) | |
| 7 | ⚠ 4-389-201-11 | HOLDER, AC CORD (KV-C2561D) | |
| | ⚠ 4-389-201-03 | HOLDER, AC CORD (KV-C2961D) | |
| 8 | ⚠ 1-590-501-11 | CORD, POWER (WITH NOISE FILTER) | |
| 9 | *A-1642-062-A | D BOARD, COMPLETE (KV-C2561D) | |
| | *A-1642-032-A | D BOARD, COMPLETE (KV-C2961D) | |
| 10 | *3-646-071-00 | HOLDER, WIRE (KV-C2961D) | |
| 11 | 4-364-802-00 | SCREW (3.5X13) (KV-C2961D) | |
| 12 | ⚠ 1-439-416-41 | TRANSFORMER ASSY, FLYBACK (NX-1604) (KV-C2561D) | |
| | ⚠ 1-439-416-51 | TRANSFORMER ASSY, FLYBACK (UX-1650) (KV-C2961D) | |
| 13 | *4-386-624-01 | BRACKET, J (KV-C2561D) | |
| | *4-386-624-11 | BRACKET, J (KV-C2961D) | |
| 14 | *A-1651-023-A | J1 BOARD, COMPLETE (KV-C2561D) | |
| | *A-1651-038-A | J1 BOARD, COMPLETE (KV-C2961D) | |
| 15 | 4-200-014-11 | BRACKET, TERMINAL (KV-C2561D) | |
| | 4-200-014-01 | BRACKET, TERMINAL (KV-C2961D) | |
| 16 | *A-1645-022-A | V BOARD, COMPLETE (KV-C2561D) | |
| | *A-1645-013-A | V BOARD, COMPLETE (KV-C2961D) | |
| 17 | *A-1621-041-A | B BOARD, COMPLETE (KV-C2561D) | |
| | *A-1621-040-A | B BOARD, COMPLETE (KV-C2961D) | |
| 18 | *A-1632-054-A | A BOARD, COMPLETE (KV-C2561D) | |
| | *A-1632-094-A | A BOARD, COMPLETE (KV-C2961D) | |
| 19 | ⚠ 1-465-301-11 | TUNER, ET (UV-816(PLL)) | |
| 20 | *A-1654-005-A | IFG BOARD, COMPLETE (KV-C2561D) | |
| | *A-1654-008-A | IFG BOARD, COMPLETE (KV-C2961D) | |
| 21 | *4-386-617-01 | HOLDER, TERMINAL (KV-C2961D) | |
| 22 | 4-386-618-01 | RIVET, T TYPE | |
| 23 | 4-202-035-01 | COVER, TERMINAL (KV-C2561D) | |
| | 4-202-004-01 | COVER, TERMINAL (KV-C2961D) | |
| 24 | 4-202-032-01 | COVER, REAR (KV-C2561D) | |
| | 4-202-014-01 | COVER, REAR (KV-C2961D) | |

## 6-4. PICTURE TUBE (KV-C2561D/C2961D)

○ : BVTP 3 × 8 7-685-646-79




The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| 51 | X-4200-098-1 | CABINET ASSY (WITH BEZEL ASSY) 52~54 | (KV-C2961D) |
| 52 | 4-392-036-01 | CATCHER, PUSH | |
| 53 | 4-202-022-01 | BUTTON, POWER (KV-C2561D) | |
| | 4-200-991-01 | BUTTON, POWER (KV-C2961D) | |
| 54 | 4-329-112-00 | SPRING (KV-C2561D) | |
| | 4-329-112-41 | SPRING (KV-C2961D) | |
| 55 | X-4200-101-1 | PLATE ASSY, ORNAMENTAL (KV-C2561D) | |
| | X-4200-099-1 | PLATE ORNAMENTAL ASSY (KV-C2961D) | |
| 56 | 4-202-020-01 | WINDOW, ORNAMENTAL (KV-C2561D) | |
| | 4-200-989-01 | WINDOW, ORNAMENTAL (KV-C2961D) | |
| 57 | 4-202-023-01 | CLIP, CONTACT (KV-C2561D) | |
| | 4-200-992-01 | CLIP, CONTACT (KV-C2961D) | |
| 58 | X-4200-100-1 | CABINET ASSY (WITH BEZEL ASSY) 52~57 | (KV-C2561D) |
| 59 | 4-202-021-01 | DOOR (KV-C2561D) | |
| | 4-200-990-01 | DOOR (KV-C2961D) | |
| 60 | ⚠ A-733-231-05 | PICTURE TUBE (A59JWC61X) (KV-C2561D) | |
| | ⚠ A-733-831-05 | PICTURE TUBE (A68JYL61X) (KV-C2961D) | |
| 61 | 3-704-495-01 | SPACER, DY | |
| 62 | ⚠ I-451-311-21 | DEFLECTION YOKE (Y25FXA) (KV-C2561D) | |
| | ⚠ I-451-313-21 | DEFLECTION YOKE (Y29FXA) (KV-C2961D) | |
| 63 | ⚠ I-452-509-42 | NECK ASSY, PICTURE TUBE (NA-308) | (KV-C2961D) |
| 64 | *1-634-193-11 | VM BOARD (KV-C2961D) | |
| 65 | *A-1638-015-A | C BOARD, COMPLETE (KV-C2561D) | |
| | *A-1638-013-A | C BOARD, COMPLETE (KV-C2961D) | |
| 66 | *4-379-167-01 | COVER (MAIN), CV | |
| 67 | *4-379-160-01 | COVER (REAR LID), CV | |
| 68 | 4-303-774-99 | SPRING (KV-C2561D) | |
| | 4-369-318-00 | SPRING, TENSION (KV-C2961D) | |
| 69 | ⚠ 1-426-372-11 | COIL, DEMAGNETIZATION (KV-C2561D) | |
| | ⚠ 1-426-398-11 | COIL, DEMAGNETIZATION (KV-C2961D) | |
| 70 | 3-651-853-01 | CUSHION (KV-C2961D) | |
| 71 | *4-385-916-01 | HOLDER (D) (KV-C2561D) | |
| 72 | 4-373-263-11 | SCREW (M), PT (KV-C2561D) | |
| | 4-200-976-01 | SCREW, PT (KV-C2961D) | |
| 73 | 4-202-027-01 | CUSHION, BOX (KV-C2561D) | |
| | 4-200-995-01 | CUSHION, BOX (KV-C2961D) | |
| 74 | A-1678-036-A | BOX COMPLETE ASSY (KV-C2561D) | 75,76 |
| | A-1678-048-A | BOX ASSY (KV-C2961D) | 75,76 |
| 75 | 1-504-146-11 | SPEAKER (5X11CM) | |
| 76 | 4-202-029-01 | STOPPER (KV-C2561D) | |
| | 4-200-999-01 | STOPPER (KV-C2961D) | |
| 77 | 4-308-870-00 | CLIP, LEAD WIRE | |
| 78 | 1-452-032-00 | MAGNET, DISK; 10MM ϕ | |
| 79 | 1-452-094-00 | MAGNET, ROTATABLE DISK; 15MM ϕ | |
| 80 | X-4306-312-0 | PERMALLOY ASSY, CONVERGENCE | |

# SECTION 7
# ELECTRICAL PARTS LIST

**B**

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

RESISTORS
- All resistors are in ohms
- F : nonflammable

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| | *A-1621-046-A | B BOARD, COMPLETE (KV-C2161D) | | | |
| | | ********** | | | |
| | *A-1621-041-A | B BOARD, COMPLETE (KV-C2561D) | | | |
| | | ********** | | | |
| | *A-1621-040-A | B BOARD, COMPLETE (KV-C2961D) | | | |
| | | ********** | | | |
| | | <CONNECTOR> | | | |
| B72 | *1-568-881-51 | PIN, CONNECTOR 6P | | | |
| B73 | *1-568-878-51 | PIN, CONNECTOR 3P (KV-C2961D) | | | |
| B31 | *1-565-393-11 | CONNECTOR, BOARD TO BOARD | | | |
| B32 | *1-565-393-11 | CONNECTOR, BOARD TO BOARD | | | |
| B33 | *1-565-393-11 | CONNECTOR, BOARD TO BOARD | | | |
| | | <CAPACITOR> | | | |
| C301 | 1-137-031-11 | FILM | 0.22MF | 10% | 100V |
| C302 | 1-137-031-11 | FILM | 0.22MF | 10% | 100V |
| C303 | 1-124-122-11 | ELECT | 100MF | 20% | 50V |
| C304 | 1-137-031-11 | FILM | 0.22MF | 10% | 100V |
| C305 | 1-124-119-00 | ELECT | 330MF | 20% | 16V |
| C306 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C307 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C308 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C309 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C310 | 1-137-098-11 | FILM | 0.1MF | 10% | 100V |
| C311 | 1-137-098-11 | FILM | 0.1MF | 10% | 100V |
| C312 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C313 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C314 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C315 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C316 | 1-137-098-11 | FILM | 0.1MF | 10% | 100V |
| C317 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C318 | 1-137-098-11 | FILM | 0.1MF | 10% | 100V |
| C321 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V (KV-C2161D,C2561D) |
| C323 | 1-102-947-00 | CERAMIC | 10PF | 0.5PF | 50V |
| C327 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C330 | 1-163-113-00 | CERAMIC CHIP | 68PF | 5% | 50V |
| C331 | 1-137-098-11 | FILM | 0.1MF | 10% | 100V |
| C332 | 1-126-103-11 | ELECT | 470MF | 20% | 16V |
| C333 | 1-137-102-11 | FILM | 0.022MF | 10% | 250V |
| C334 | 1-163-237-11 | CERAMIC CHIP | 27PF | 5% | 50V |
| C335 | 1-163-237-11 | CERAMIC CHIP | 27PF | 5% | 50V |
| C336 | 1-102-816-00 | CERAMIC | 120PF | 5% | 50V |
| C337 | 1-101-004-00 | CERAMIC | 0.01MF | | 50V |
| C338 | 1-137-098-11 | FILM | 0.1MF | 10% | 100V |
| C339 | 1-137-098-11 | FILM | 0.1MF | 10% | 100V |
| C341 | 1-163-125-00 | CERAMIC CHIP | 220PF | 5% | 50V |
| C343 | 1-137-094-11 | FILM | 0.047MF | 10% | 100V |
| C344 | 1-137-033-11 | FILM | 0.33MF | 10% | 100V |
| C345 | 1-163-123-00 | CERAMIC CHIP | 180PF | 5% | 50V |
| C346 | 1-163-033-00 | CERAMIC CHIP | 0.022MF | | 50V |
| C347 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C348 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C349 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C350 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C351 | 1-137-102-11 | FILM | 0.022MF | 10% | 250V |
| C352 | 1-137-102-11 | FILM | 0.022MF | 10% | 250V |
| C353 | 1-163-063-00 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C354 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C357 | 1-163-377-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C358 | 1-124-917-11 | ELECT | 33MF | 20% | 50V |
| C359 | 1-163-103-00 | CERAMIC CHIP | 27PF | 5% | 50V |
| C360 | 1-101-004-00 | CERAMIC | 0.01MF | | 50V |
| C364 | 1-163-105-00 | CERAMIC CHIP | 33PF | 5% | 50V |
| C365 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C366 | 1-126-103-11 | ELECT | 470MF | 20% | 16V |
| C367 | 1-101-004-00 | CERAMIC | 0.01MF | | 50V |
| C381 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C382 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V |
| C384 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C385 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V |
| C386 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V (KV-C2961D) |
| C387 | 1-137-027-11 | FILM | 0.82MF | 10% | 63V |
| C388 | 1-137-098-11 | FILM | 0.1MF | 10% | 100V |
| C401 | 1-101-361-00 | CERAMIC | 150PF | 5% | 50V |
| C402 | 1-163-197-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C403 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C1311 | 1-163-111-00 | CERAMIC CHIP | 56PF | 5% | 50V |
| | 1-163-105-00 | CERAMIC CHIP | 33PF | 5% | (KV-C2161D,C2561D) 50V (KV-C2961D) |
| C1312 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C1313 | 1-102-953-00 | CERAMIC | 18PF | 5% | 50V |
| | | <TRIMMER> | | | |
| CT331 | 1-141-418-11 | CAP, ADJ (KV-C2161D,C2961D) | | | |
| | 1-141-181-11 | CAP, TRIMMER (KV-C2561D) | | | |
| CT332 | 1-141-418-11 | CAP, ADJ (KV-C2161D,C2961D) | | | |
| | 1-141-181-11 | CAP, TRIMMER (KV-C2561D) | | | |
| | | <DIODE> | | | |
| D301 | 8-719-911-19 | DIODE 1SS119 | | | |
| D302 | 8-719-911-19 | DIODE 1SS119 | | | |
| D303 | 8-719-911-19 | DIODE 1SS119 | | | |
| D304 | 8-719-911-19 | DIODE 1SS119 | | | |
| D305 | 8-719-911-19 | DIODE 1SS119 | | | |
| D307 | 8-719-110-23 | DIODE RD11ES-B3 | | | |
| D309 | 8-719-911-19 | DIODE 1SS119 | | | |

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| D310 | 8-719-110-23 | DIODE RD11ES-B3 | |
| D311 | 8-719-110-23 | DIODE RD11ES-B3 | |
| D312 | 8-719-110-23 | DIODE RD11ES-B3 | |
| D313 | 8-719-911-19 | DIODE 1SS119 | |
| D314 | 8-719-911-19 | DIODE 1SS119 | |
| D315 | 8-719-911-19 | DIODE 1SS119 | |
| D316 | 8-719-911-19 | DIODE 1SS119 | |
| D317 | 8-719-911-19 | DIODE 1SS119 | |
| D318 | 8-719-911-19 | DIODE 1SS119 | |
| D319 | 8-719-911-19 | DIODE 1SS119 | |
| D320 | 8-719-911-19 | DIODE 1SS119 | |
| D331 | 8-719-911-19 | DIODE 1SS119 | |
| D332 | 8-719-911-19 | DIODE 1SS119 | |
| D333 | 8-719-911-19 | DIODE 1SS119 | |
| D350 | 8-719-109-89 | DIODE RD5.6ES-B2 | |
| | | <DELAY LINE> | |
| DL332 | 1-236-062-11 | MODULE, Y DELAY LINE | |
| DL401 | 1-415-613-11 | DELAY LINE, Y | |
| | | <IC> | |
| IC301 | 8-759-517-43 | IC TDA4580-V7 | |
| IC302 | 8-759-980-60 | IC TDA8442N3 | |
| IC303 | 8-759-140-53 | IC UPD4053BC | |
| IC331 | 8-759-521-22 | IC TDA4650/V4 | |
| IC332 | 8-759-505-39 | IC TDA4660V2 | |
| IC1301 | 1-235-534-11 | CONTROL MODULE, PICTURE (KV-C2961D) | |
| | | <COIL> | |
| L301 | 1-410-868-11 | INDUCTOR 4.7UH | |
| L302 | 1-410-868-11 | INDUCTOR 4.7UH | |
| L303 | 1-408-406-00 | INDUCTOR 5.6UH (KV-C2161D,C2561D) | |
| L331 | 1-404-554-11 | COIL | |
| L336 | 1-404-554-11 | COIL | |
| L338 | 1-408-409-00 | INDUCTOR 10UH | |
| L1301 | 1-408-425-00 | INDUCTOR 220UH | |
| L1302 | 1-408-419-00 | INDUCTOR 68UH | |
| | | <TRANSISTOR> | |
| Q301 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 (KV-C2161D,C2561D) | |
| Q303 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q305 | 8-729-901-06 | TRANSISTOR DTA144EK | |
| Q306 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q311 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q312 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q313 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q316 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q330 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q331 | 8-729-901-00 | TRANSISTOR DTC124EK | |
| Q332 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q333 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q334 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q335 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q381 | 8-729-901-00 | TRANSISTOR DTC124EK | |
| Q382 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q1301 | 8-729-901-00 | TRANSISTOR DTC124EK | |
| Q1305 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 (KV-C2961D) | |
| Q1306 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| | | <RESISTOR> | | | |
| JR385 | 1-216-206-00 | METAL GLAZE | 2.2K | 5% 1/8W | |
| JR387 | 1-216-295-00 | METAL GLAZE | 0 | 5% 1/10W | (KV-C2961D) |
| JR390 | 1-216-295-00 | METAL GLAZE | 0 | 5% 1/10W | (KV-C2161D,C2561D) |
| R301 | 1-249-409-11 | CARBON | 220 | 5% 1/4W | |
| R302 | 1-249-409-11 | CARBON | 220 | 5% 1/4W | |
| R303 | 1-249-409-11 | CARBON | 220 | 5% 1/4W | |
| R304 | 1-249-409-11 | CARBON | 220 | 5% 1/4W | |
| R305 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% 1/10W | |
| R307 | 1-216-097-00 | METAL GLAZE | 100K | 5% 1/10W | |
| R308 | 1-216-296-00 | METAL GLAZE | 0 | 5% 1/8W | |
| R309 | 1-216-025-00 | METAL GLAZE | 100 | 5% 1/10W | |
| R310 | 1-216-025-00 | METAL GLAZE | 100 | 5% 1/10W | |
| R311 | 1-216-025-00 | METAL GLAZE | 100 | 5% 1/10W | |
| R312 | 1-249-409-11 | CARBON | 220 | 5% 1/4W | |
| R313 | 1-216-081-00 | METAL GLAZE | 22K | 5% 1/10W | |
| R314 | 1-216-182-00 | METAL GLAZE | 220 | 5% 1/8W | |
| R315 | 1-216-031-00 | METAL GLAZE | 180 | 5% 1/10W | |
| R316 | 1-216-031-00 | METAL GLAZE | 180 | 5% 1/10W | |
| R317 | 1-216-031-00 | METAL GLAZE | 180 | 5% 1/10W | |
| R318 | 1-249-429-11 | CARBON | 10K | 5% 1/4W | |
| R319 | 1-249-409-11 | CARBON | 220 | 5% 1/4W | |
| R320 | 1-216-198-00 | METAL GLAZE | 1K | 5% 1/8W | |
| R321 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% 1/10W | |
| R322 | 1-216-049-00 | METAL GLAZE | 1K | 5% 1/10W | |
| R328 | 1-216-311-00 | METAL GLAZE | 6.8 | 5% 1/10W | |
| R329 | 1-216-311-00 | METAL GLAZE | 6.8 | 5% 1/10W | |
| R330 | 1-216-311-00 | METAL GLAZE | 6.8 | 5% 1/10W | |
| R331 | 1-216-001-00 | METAL GLAZE | 10 | 5% 1/10W | |
| R332 | 1-216-184-00 | METAL GLAZE | 270 | 5% 1/8W | |
| R333 | 1-216-121-00 | METAL GLAZE | 1M | 5% 1/10W | |
| R334 | 1-216-073-00 | METAL GLAZE | 10K | 5% 1/10W | |
| R335 | 1-247-852-11 | CARBON | 7.5K | 5% 1/4W | |
| R336 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% 1/10W | |
| R337 | 1-216-184-00 | METAL GLAZE | 270 | 5% 1/8W | |
| R338 | 1-216-001-00 | METAL GLAZE | 10 | 5% 1/10W | |
| R339 | 1-216-033-00 | METAL GLAZE | 220 | 5% 1/10W | |
| R341 | 1-216-031-00 | METAL GLAZE | 180 | 5% 1/10W | |
| R342 | 1-216-041-00 | METAL GLAZE | 470 | 5% 1/10W | |
| R344 | 1-216-089-00 | METAL GLAZE | 47K | 5% 1/10W | |
| R346 | 1-216-202-00 | METAL GLAZE | 1.5K | 5% 1/8W | |
| R347 | 1-216-073-00 | METAL GLAZE | 10K | 5% 1/10W | |
| R348 | 1-216-089-00 | METAL GLAZE | 47K | 5% 1/10W | |
| R349 | 1-216-045-00 | METAL GLAZE | 680 | 5% 1/10W | (KV-C2161D,C2561D) |
| R350 | 1-216-045-00 | METAL GLAZE | 680 | 5% 1/10W | (KV-C2161D,C2561D) |
| R351 | 1-216-033-00 | METAL GLAZE | 220 | 5% 1/10W | (KV-C2161D,C2561D) |
| R354 | 1-216-033-00 | METAL GLAZE | 220 | 5% 1/10W | |
| R355 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% 1/10W | |
| R356 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% 1/10W | |
| R357 | 1-216-033-00 | METAL GLAZE | 220 | 5% 1/10W | (KV-C2961D) |
| R358 | 1-216-033-00 | METAL GLAZE | 220 | 5% 1/10W | |
| R359 | 1-216-089-00 | METAL GLAZE | 47K | 5% 1/10W | |
| R360 | 1-216-089-00 | METAL GLAZE | 47K | 5% 1/10W | |
| R361 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% 1/10W | |
| R363 | 1-216-055-00 | METAL GLAZE | 1.8K | 5% 1/10W | |

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

B F A

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R364 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| R365 | 1-216-047-00 | METAL GLAZE | 820 | 5% | 1/10W | |
| R366 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| R367 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R370 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R372 | 1-216-023-00 | METAL GLAZE | 82 | 5% | 1/10W | |
| R376 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R377 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | (KV-C2161D,C2561D) |
| | 1-216-055-00 | METAL GLAZE | 1.8K | 5% | 1/10W | (KV-C2961D) |
| R378 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R379 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R380 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W | |
| R381 | 1-216-093-00 | METAL GLAZE | 68K | 5% | 1/10W | |
| R382 | 1-216-107-00 | METAL GLAZE | 270K | 5% | 1/10W | (KV-C2161D) |
| | 1-216-105-00 | METAL GLAZE | 220K | 5% | 1/10W | (KV-C2561D,C2961D) |
| R383 | 1-216-115-00 | METAL GLAZE | 560K | 5% | 1/10W | |
| R384 | 1-216-029-00 | METAL GLAZE | 150 | 5% | 1/10W | |
| R385 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R386 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | (KV-C2961D) |
| R387 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R388 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R389 | 1-216-101-00 | METAL GLAZE | 150K | 5% | 1/10W | |
| R390 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | (KV-C2161D,C2561D) |
| | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | (KV-C2961D) |
| R392 | 1-216-021-00 | METAL GLAZE | 68 | 5% | 1/10W | |
| R393 | 1-216-021-00 | METAL GLAZE | 68 | 5% | 1/10W | |
| R394 | 1-216-021-00 | METAL GLAZE | 68 | 5% | 1/10W | |
| R395 | 1-216-214-00 | METAL GLAZE | 4.7K | 5% | 1/8W | |
| R396 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R398 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R401 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | |
| R402 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W | |
| R403 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R404 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| R405 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R406 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R407 | 1-216-047-00 | METAL GLAZE | 820 | 5% | 1/10W | |
| R410 | 1-216-184-00 | METAL GLAZE | 270 | 5% | 1/8W | |
| R412 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | |
| R1301 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R1302 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | (KV-C2961D) |
| R1303 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | (KV-C2961D) |
| R1304 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | (KV-C2961D) |
| R1305 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | |
| R1307 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R1308 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | (KV-C2161D,C2561D) |
| | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | (KV-C2961D) |
| R1309 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |

<VARIABLE RESISTOR>

| | | |
|---|---|---|
| RV331 | 1-238-012-11 | RES, ADJ, CARBON 1K |

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|

<CRYSTAL>

| | | |
|---|---|---|
| X331 | 1-567-307-11 | OSCILLATOR, CRYSTAL |
| X332 | 1-567-131-00 | OSCILLATOR, CRYSTAL |

**********

| | | |
|---|---|---|
| | *1-638-390-11 | F BOARD (KV-C2161D,C2961D) |
| | | ******* |
| | *1-638-743-11 | F BOARD (KV-C2561D) |
| | | ******* |
| | *4-341-752-01 | EYELET |

<CONNECTOR>

| | | |
|---|---|---|
| F61 | *1-580-844-11 | PIN, CONNECTOR (POWER) |
| F62 | *1-580-844-11 | PIN, CONNECTOR (POWER) |

<FUSE>

| | | |
|---|---|---|
| F1601⚠ | 1-576-231-21 | FUSE (H.B.C.) 4A/250V |
| | 1-533-230-11 | HOLDER, FUSE; F1601 |

<SWITCH>

| | | |
|---|---|---|
| S1701⚠ | 1-571-433-12 | SWITCH, PUSH (AC POWER) |

**********

| | | |
|---|---|---|
| | *A-1632-022-A | A BOARD, COMPLETE (KV-C2161D) |
| | | ********** |
| | *A-1632-054-A | A BOARD, COMPLETE (KV-C2561D) |
| | | ********** |
| | *A-1632-094-A | A BOARD, COMPLETE (KV-C2961D) |
| | | ********** |

<CONNECTOR>

| | | |
|---|---|---|
| A11 | *1-565-393-11 | CONNECTOR, BOARD TO BOARD |
| A12 | *1-565-393-11 | CONNECTOR, BOARD TO BOARD |
| A13 | *1-565-503-11 | CONNECTOR, BOARD TO BOARD 12P |
| A16 | *1-560-290-00 | PLUG, CONNECTOR (2.5MM PITCH) (KV-C2161D,C2961D) |
| A17 | *1-564-886-11 | PLUG, CONNECTOR 9P (KV-C2161D,C2961D) |
| A19 | *1-564-881-11 | PLUG, CONNECTOR 4P (KV-C2161D,C2961D) |

<CAPACITOR>

| | | | | | |
|---|---|---|---|---|---|
| C101 | 1-126-233-11 | ELECT | 22MF | 20% | 50V |
| C102 | 1-126-103-11 | ELECT | 470MF | 20% | 16V |
| C104 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C106 | 1-126-233-11 | ELECT | 22MF | 20% | 50V |
| C108 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C109 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C111 | 1-124-925-11 | ELECT | 2.2MF | 20% | 50V |
| C115 | 1-124-925-11 | ELECT | 2.2MF | 20% | 50V |
| C127 | 1-124-122-11 | ELECT | 100MF | 20% | 50V |
| C128 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C129 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C138 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C171 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C172 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C177 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V |
| C181 | 1-101-004-00 | CERAMIC | 0.01MF | | 50V |

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

# A IFB

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| | | <IC> | | | | |
| IC103 | 8-759-979-62 | IC PCF8574 | | | | |
| | | <COIL> | | | | |
| L100 | 1-410-683-31 | INDUCTOR | 560UH | | | |
| L101 | 1-408-225-00 | INDUCTOR | 3.3UH | | | |
| L102 | 1-408-413-00 | INDUCTOR | 22UH | | | |
| L107 | 1-408-397-00 | INDUCTOR | 1UH | | | |
| | | <TRANSISTOR> | | | | |
| Q113 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | | |
| Q114 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | | |
| Q115 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | | |
| Q116 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | | |
| Q125 | 8-729-900-89 | TRANSISTOR DTC144ES | | | | |
| Q126 | 8-729-901-06 | TRANSISTOR DTA144EK | | | | |
| Q181 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | | |
| | | <RESISTOR> | | | | |
| JR230 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| JR252 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR253 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR255 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR256 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR257 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR258 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| R101 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R105 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R107 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R108 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R110 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R111 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R116 | 1-216-023-00 | METAL GLAZE | 82 | 5% | 1/10W | |
| R118 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R128 | 1-216-027-00 | METAL GLAZE | 120 | 5% | 1/10W | |
| R129 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R130 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R157 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R158 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R159 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R161 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R162 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1/10W | |
| R163 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1/10W | |
| R164 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R165 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R167 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| R168 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R169 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| R181 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R182 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R193 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R194 | 1-216-017-00 | METAL GLAZE | 47 | 5% | 1/10W | |
| R195 | 1-216-017-00 | METAL GLAZE | 47 | 5% | 1/10W | |
| R196 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| | | <TUNER> | | | | |
| TU101 ⚠ | 1-465-301-11 | TUNER, ET (UV-816(PLL)) | | | | |

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| | | <IF BLOCK> | | | | |
| VIF101 | 1-466-154-11 | IF BLOCK (IFG-389S) | | | | |
| ********** | | | | | | |
| | 1-466-154-11 | IFB BOARD (IF BLOCK IFG-389S) | | | | |
| | | ********* | | | | |
| | | <CAPACITOR> | | | | |
| C9 | 1-163-029-11 | CERAMIC CHIP | 0.0047MF | | 50V | |
| C10 | 1-124-925-11 | ELECT | 2.2MF | 20% | 50V | |
| C11 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | |
| C12 | 1-163-029-11 | CERAMIC CHIP | 0.0047MF | | 50V | |
| C13 | 1-163-029-11 | CERAMIC CHIP | 0.0047MF | | 50V | |
| C14 | 1-124-034-51 | ELECT | 33MF | 20% | 16V | |
| C17 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C18 | 1-163-107-00 | CERAMIC CHIP | 39PF | 5% | 50V | |
| C19 | 1-126-176-11 | ELECT | 220MF | 20% | 10V | |
| C20 | 1-123-382-00 | ELECT | 3.3MF | 20% | 50V | |
| C21 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V | |
| C22 | 1-163-029-11 | CERAMIC CHIP | 0.0047MF | | 50V | |
| C23 | 1-130-475-00 | MYLAR | 0.0022MF | 5% | 50V | |
| C24 | 1-163-113-00 | CERAMIC CHIP | 68PF | 5% | 50V | |
| C25 | 1-163-113-00 | CERAMIC CHIP | 68PF | 5% | 50V | |
| C28 | 1-163-029-11 | CERAMIC CHIP | 0.0047MF | | 50V | |
| C29 | 1-163-029-11 | CERAMIC CHIP | 0.0047MF | | 50V | |
| C30 | 1-124-034-51 | ELECT | 33MF | 20% | 16V | |
| C31 | 1-163-085-00 | CERAMIC CHIP | 2PF | 0.25PF | 50V | |
| C32 | 1-163-113-00 | CERAMIC CHIP | 68PF | 5% | 50V | |
| C33 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V | |
| C34 | 1-163-029-11 | CERAMIC CHIP | 0.0047MF | | 50V | |
| C35 | 1-124-034-51 | ELECT | 33MF | 20% | 16V | |
| | | <FILTER> | | | | |
| CF1 | 1-404-801-11 | TRAP, CERAMIC | | | | |
| | | <CONNECTOR> | | | | |
| CN1 | *1-506-913-11 | PIN, CONNECTOR 10P | | | | |
| | | <IC> | | | | |
| IC1 | 8-759-996-04 | IC TDA8341/N6 | | | | |
| IC2 | 8-759-516-81 | IC TDA2545A-V4 | | | | |
| | | <COIL> | | | | |
| L2 | 1-408-410-00 | INDUCTOR | 12UH | | | |
| L3 | 1-408-406-00 | INDUCTOR | 5.6UH | | | |
| L4 | 1-408-407-00 | INDUCTOR | 6.8UH | | | |
| L6 | 1-408-397-00 | INDUCTOR | 1UH | | | |
| L7 | 1-408-406-00 | INDUCTOR | 5.6UH | | | |
| L8 | 1-408-406-00 | INDUCTOR | 5.6UH | | | |
| | | <TRANSISTOR> | | | | |
| Q1 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | | | | |
| Q2 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | | | | |
| Q7 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | |

# IFB C

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| | | <RESISTOR> | | | | |
| JC1 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| R9 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R10 | 1-216-029-00 | METAL GLAZE | 150 | 5% | 1/10W | |
| R11 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R12 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R13 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R15 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R16 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R17 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R18 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | |
| R19 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R20 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R21 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R22 | 1-216-093-00 | METAL GLAZE | 68K | 5% | 1/10W | |
| R23 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W | |
| R24 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R30 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R31 | 1-216-208-00 | METAL GLAZE | 2.7K | 5% | 1/8W | |
| | | <VARIABLE RESISTOR> | | | | |
| RV1 | 1-238-550-11 | RES, ADJ, CARBON 100K | | | | |
| | | <TRANSFORMER> | | | | |
| T1 | 1-404-493-31 | COIL | | | | |
| T2 | 1-404-493-31 | COIL | | | | |
| T5 | 1-404-493-31 | COIL | | | | |
| ********** | | | | | | |
| | *A-1638-014-A | C BOARD, COMPLETE (KV-C2161D) | | | | |
| | | ********** | | | | |
| | *A-1638-015-A | C BOARD, COMPLETE (KV-C2561D) | | | | |
| | | ********** | | | | |
| | *A-1638-013-A | C BOARD, COMPLETE (KV-C2961D) | | | | |
| | | ********** | | | | |
| | *4-379-160-01 | COVER (REAR LID), CV | | | | |
| | *4-379-167-01 | COVER (MAIN), CV | | | | |
| | | <CONNECTOR> | | | | |
| C71 | *1-506-371-00 | PIN, CONNECTOR 2P | | | | |
| C72 | *1-568-881-51 | PIN, CONNECTOR 6P | | | | |
| C81 | *1-568-878-51 | PIN, CONNECTOR 3P | | | | |
| C82 | *1-508-765-00 | PIN, CONNECTOR (5MM PITCH) 3P | | | | |
| | | <CAPACITOR> | | | | |
| C703 | 1-102-980-00 | CERAMIC | 270PF | 5% | 50V | |
| C704 | 1-102-116-00 | CERAMIC | 680PF | 10% | 50V | |
| C705 | 1-102-976-00 | CERAMIC | 180PF | 5% | 50V (KV-C2161D) | |
| | 1-102-978-00 | CERAMIC | 220PF | 5% | 50V (KV-C2561D,C2961D) | |
| C706 | 1-102-116-00 | CERAMIC | 680PF | 10% | 50V | |
| C707 | 1-162-116-00 | CERAMIC | 680PF | 10% | 2KV | |
| C708 | 1-162-114-00 | CERAMIC | 0.0047MF | | 2KV | |
| C709 | 1-102-116-00 | CERAMIC | 680PF | 10% | 50V | |
| C710 | 1-123-947-00 | ELECT | 10MF | 20% | 250V | |
| C711 | 1-101-880-00 | CERAMIC | 47PF | 5% | 50V | |
| C712 | 1-102-980-00 | CERAMIC | 270PF | 5% | 50V | |
| C714 | 1-124-360-00 | ELECT | 1000MF | 20% | 16V | |
| C716 | 1-162-622-11 | CERAMIC | 330PF | 10% | 400V | |
| C717 | 1-102-114-00 | CERAMIC | 470PF | 10% | 50V | |
| C718 | 1-102-114-00 | CERAMIC | 470PF | 10% | 50V | |
| C719 | 1-102-114-00 | CERAMIC | 470PF | 10% | 50V | |
| | | <DIODE> | | | | |
| D701 | 8-719-110-14 | DIODE RD9.1ES-B3 | | | | |
| D702 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D703 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D704 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D705 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D706 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D707 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D708 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D709 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D710 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D711 | 8-719-300-33 | DIODE RU-3AM | | | | |
| D713 | 8-719-911-19 | DIODE 1SS119 | | | | |
| | | <JACK> | | | | |
| J701 | 1-526-990-11 | SOCKET, PICTURE TUBE | | | | |
| | | <COIL> | | | | |
| L704 | 1-408-415-00 | INDUCTOR | 33UH | | | |
| | | <TRANSISTOR> | | | | |
| Q702 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q703 | 8-729-906-70 | TRANSISTOR BF871 | | | | |
| Q704 | 8-729-200-17 | TRANSISTOR 2SA1091-O | | | | |
| Q705 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q706 | 8-729-906-70 | TRANSISTOR BF871 | | | | |
| Q707 | 8-729-200-17 | TRANSISTOR 2SA1091-O | | | | |
| Q708 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q709 | 8-729-906-70 | TRANSISTOR BF871 | | | | |
| Q710 | 8-729-200-17 | TRANSISTOR 2SA1091-O | | | | |
| | | <RESISTOR> | | | | |
| R704 | 1-216-486-00 | METAL OXIDE | 8.2K | 5% | 3W F | |
| R705 | 1-202-824-00 | SOLID | 3.3K | 10% | 1/2W | |
| R706 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R707 | 1-247-822-11 | CARBON | 430 | 5% | 1/4W (KV-C2161D) | |
| | 1-249-412-11 | CARBON | 390 | 5% | 1/4W (KV-C2561D,C2961D) | |
| R708 | 1-249-401-11 | CARBON | 47 | 5% | 1/4W | |
| R709 | 1-202-844-00 | SOLID | 330K | 10% | 1/2W | |
| R710 | 1-215-469-00 | METAL | 100K | 1% | 1/4W (KV-C2161D) | |
| | 1-215-465-00 | METAL | 68K | 1% | 1/4W (KV-C2561D,C2961D) | |
| R711 | 1-249-426-11 | CARBON | 5.6K | 5% | 1/4W | |
| R712 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R713 | 1-215-474-00 | METAL | 160K | 1% | 1/4W (KV-C2161D) | |
| | 1-215-471-00 | METAL | 120K | 1% | 1/4W (KV-C2561D,C2961D) | |
| R714 | 1-216-486-00 | METAL OXIDE | 8.2K | 5% | 3W F | |
| R715 | 1-202-824-00 | SOLID | 3.3K | 10% | 1/2W | |
| R716 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |

C D

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R717 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W | |
| R718 | 1-202-814-11 | SOLID | 33K | 20% | 1/2W | |
| R719 | 1-249-401-11 | CARBON | 47 | 5% | 1/4W | |
| R720 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | |
| R721 | 1-202-842-11 | SOLID | 220K | 20% | 1/2W | |
| R722 | 1-202-848-00 | SOLID | 680K | 10% | 1/2W | |
| R723 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R724 | 1-202-846-00 | SOLID | 470K | 20% | 1/2W | |
| R725 | 1-202-838-00 | SOLID | 100K | 20% | 1/2W | |
| R726 | 1-202-824-00 | SOLID | 3.3K | 10% | 1/2W | |
| R727 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R728 | 1-216-347-11 | METAL OXIDE | 0.68 | 5% | 1W | F |
| R729 | 1-249-416-11 | CARBON | 820 | 5% | 1/4W | |
| R730 | 1-249-401-11 | CARBON | 47 | 5% | 1/4W | |
| R731 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | |
| R732 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W | |
| R733 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W | |
| R734 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R735 | 1-215-493-00 | METAL | 1M | 1% | 1/4W | |
| R736 | 1-216-486-00 | METAL OXIDE | 8.2K | 5% | 3W | F |
| R737 | 1-215-483-00 | METAL | 390K | 1% | 1/4W | (KV-C2161D) |
| | 1-215-491-00 | METAL | 820K | 1% | 1/4W | (KV-C2561D) |
| | 1-215-485-00 | METAL | 470K | 1% | 1/4W | (KV-C2961D) |
| R739 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |

<VARIABLE RESISTOR>

| | | |
|---|---|---|
| RV701 | 1-230-641-11 | RES, ADJ, METAL GLAZE 2.2M |
| RV702 | 1-230-619-11 | RES, ADJ, METAL GLAZE 110M |
| RV703 | 1-237-749-11 | RES, ADJ, CARBON 2200 |
| RV704 | 1-237-749-11 | RES, ADJ, CARBON 2200 |

**********

| | | |
|---|---|---|
| *A-1642-035-A | D BOARD, COMPLETE (KV-C2161D) | |
| *A-1642-062-A | D BOARD, COMPLETE (KV-C2561D) | |
| *A-1642-032-A | D BOARD, COMPLETE (KV-C2961D) | |
| *4-341-751-01 | EYELET | |
| *4-341-752-01 | EYELET | |
| *4-368-683-01 | SPRING | |

<CAPACITOR>

| | | | | | |
|---|---|---|---|---|---|
| C002 | 1-163-205-00 | CERAMIC CHIP | 0.001MF | 5% | 50V |
| C003 | 1-124-925-11 | ELECT | 2.2MF | 20% | 50V |
| C004 | 1-124-120-11 | ELECT | 220MF | 20% | 16V |
| C005 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C008 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C009 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C010 | 1-124-120-11 | ELECT | 220MF | 20% | 16V |
| C011 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C013 | 1-137-098-11 | FILM | 0.1MF | 10% | 100V |
| C014 | 1-137-098-11 | FILM | 0.1MF | 10% | 100V |
| C015 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C016 | 1-163-141-00 | CERAMIC CHIP | 0.001MF | 5% | 50V |
| C017 | 1-137-098-11 | FILM | 0.1MF | 10% | 100V |
| C018 | 1-163-127-00 | CERAMIC CHIP | 270PF | 5% | 50V |
| C019 | 1-137-094-11 | FILM | 0.047MF | 10% | 100V |
| C021 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C023 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C024 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C027 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C030 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C031 | 1-163-081-00 | CERAMIC CHIP | 0.22MF | | 25V |
| C032 | 1-163-081-00 | CERAMIC CHIP | 0.22MF | | 25V |
| C033 | 1-163-181-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C034 | 1-124-907-11 | ELECT | 10MF | 20% | 50V |
| C251 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C252 | 1-126-233-11 | ELECT | 22MF | 20% | 50V |
| C253 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C254 | 1-137-098-11 | FILM | 0.1MF | 10% | 100V |
| C255 | 1-124-636-00 | ELECT | 3300MF | 20% | 25V |
| C261 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C262 | 1-126-233-11 | ELECT | 22MF | 20% | 50V |
| C263 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C264 | 1-137-098-11 | FILM | 0.1MF | 10% | 100V |
| C265 | 1-124-564-11 | ELECT | 4700MF | 20% | 25V |
| C270 | 1-137-035-11 | FILM | 0.47MF | 10% | 100V |
| C274 | 1-137-035-11 | FILM | 0.47MF | 10% | 100V |
| C501 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V |
| C502 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V |
| C503 | 1-137-049-11 | FILM | 0.015MF | 10% | 400V |
| C504 | 1-163-121-00 | CERAMIC CHIP | 150PF | 5% | 50V |
| C505 | 1-108-794-11 | MYLAR | 0.0015MF | 5% | 50V |
| C506 | 1-137-102-11 | FILM | 0.022MF | 10% | 250V |
| C507 | 1-137-033-11 | FILM | 0.33MF | 10% | 100V |
| C508 | 1-137-102-11 | FILM | 0.022MF | 10% | 250V |
| C509 | 1-137-098-11 | FILM | 0.1MF | 10% | 100V |
| C510 | 1-161-959-00 | CERAMIC | 22PF | 10% | 500V |
| C511 | 1-108-686-11 | MYLAR | 0.0033MF | 10% | 100V |
| C512 | 1-137-098-11 | FILM | 0.1MF | 10% | 100V |
| C513 | 1-163-125-00 | CERAMIC CHIP | 220PF | 5% | 50V |
| C514 | 1-137-031-11 | FILM | 0.22MF | 10% | 100V |
| C515 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C516 | 1-108-680-11 | MYLAR | 0.001MF | 10% | 100V |
| C517 | 1-124-252-00 | ELECT | 0.33MF | 20% | 50V |
| C518 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C519 | 1-136-173-00 | FILM | 0.47MF | 5% | 50V (KV-C2161D,C2561D) |
| | 1-136-171-00 | FILM | 0.33MF | 5% | 50V (KV-C2961D) |
| C520 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C521 | 1-137-098-11 | FILM | 0.1MF | 10% | 100V |
| C522 | 1-124-122-11 | ELECT | 100MF | 20% | 50V |
| C523 | 1-108-680-11 | MYLAR | 0.001MF | 10% | 100V |
| C524 | 1-108-798-11 | MYLAR | 0.0033MF | 5% | 50V |
| C525 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C526 | 1-163-103-00 | CERAMIC CHIP | 27PF | 5% | 50V (KV-C2161D,C2561D) |
| | 1-163-101-00 | CERAMIC CHIP | 22PF | 5% | 50V (KV-C2961D) |
| C527 | 1-137-098-11 | FILM | 0.1MF | 10% | 100V |
| C531 | 1-124-190-00 | ELECT | 680MF | 10% | 25V |
| C532 | 1-124-122-11 | ELECT | 100MF | 20% | 50V |
| C533 | 1-137-096-11 | FILM | 0.068MF | 10% | 100V |
| C534 | 1-124-120-11 | ELECT | 220MF | 20% | 16V |
| C536 | 1-131-363-00 | TANTALUM | 4.7MF | 10% | 16V (KV-C2161D) |
| | 1-131-365-00 | TANTALUM | 10MF | 10% | 16V (KV-C2561D,C2961D) |
| C537 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C538 | 1-108-680-11 | MYLAR | 0.001MF | 10% | 100V |
| C539 | 1-163-129-00 | CERAMIC CHIP | 330PF | 5% | 50V |

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

**D**

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| C540 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V | |
| C592 | 1-124-122-11 | ELECT | 100MF | 20% | 50V | |
| C593 | 1-163-129-00 | CERAMIC CHIP | 330PF | 5% | 50V | |
| C601 ⚠ | 1-161-964-61 | CERAMIC | 0.0047MF | | 250V | |
| C602 ⚠ | 1-161-964-61 | CERAMIC | 0.0047MF | | 250V | |
| C603 ⚠ | 1-161-964-61 | CERAMIC | 0.0047MF | | 250V | |
| C604 ⚠ | 1-125-318-11 | ELECT(BLOCK) | 220MF | 20% | 400V | |
| C605 | 1-124-484-11 | ELECT | 220MF | 20% | 35V | |
| C606 | 1-163-137-00 | CERAMIC CHIP | 680PF | 5% | 50V | |
| C607 | 1-137-028-11 | FILM | 1MF | 10% | 63V | |
| C608 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V | |
| C611 | 1-124-910-11 | ELECT | 47MF | 20% | 50V | |
| C612 | 1-108-680-11 | MYLAR | 0.001MF | 10% | 100V | |
| C613 | 1-136-539-11 | FILM | 0.0022MF | 3% | 2KV | |
| C614 | 1-102-030-00 | CERAMIC | 330PF | 10% | 500V | |
| C615 | 1-128-142-11 | ELECT | 1500MF | 20% | 25V | |
| C616 | 1-102-030-00 | CERAMIC | 330PF | 10% | 500V | |
| C617 | 1-124-120-11 | ELECT | 220MF | 20% | 25V | (KV-C2161D) |
| | 1-124-122-11 | ELECT | 100MF | 20% | 50V | (KV-C2561D,C2961D) |
| C618 | 1-162-115-00 | CERAMIC | 330PF | 10% | 2KV | |
| C619 | 1-128-320-11 | ELECT | 2200MF | 20% | 16V | (KV-C2161D,C2961D) |
| | 1-124-556-11 | ELECT | 2200MF | 20% | 16V | (KV-C2561D) |
| C620 | 1-137-028-11 | FILM | 1MF | 10% | 63V | (KV-C2161D) |
| | 1-136-173-00 | FILM | 0.47MF | 5% | 50V | (KV-C2561D,C2961D) |
| C621 | 1-124-347-00 | ELECT | 100MF | 20% | 160V | |
| C622 | 1-128-320-11 | ELECT | 2200MF | 20% | 16V | |
| C623 | 1-124-910-11 | ELECT | 47MF | 20% | 50V | |
| C624 | 1-124-122-11 | ELECT | 100MF | 20% | 50V | |
| C625 | 1-124-360-00 | ELECT | 1000MF | 20% | 16V | |
| C626 | 1-124-907-11 | ELECT | 10MF | 20% | 50V | |
| C627 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V | |
| C631 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V | |
| C632 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V | |
| C633 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C801 | 1-126-105-11 | ELECT | 1000MF | 20% | 35V | |
| C802 | 1-102-030-00 | CERAMIC | 330PF | 10% | 500V | |
| C804 | 1-123-948-00 | ELECT | 22MF | 20% | 250V | |
| C805 | 1-162-114-00 | CERAMIC | 0.0047MF | | 2KV | |
| C806 | 1-137-098-11 | FILM | 0.1MF | 10% | 100V | |
| C807 | 1-106-395-00 | MYLAR | 0.15MF | 10% | 200V | |
| C810 | 1-123-024-21 | ELECT | 33MF | | 160V | |
| C811 | 1-136-111-00 | FILM | 1MF | 5% | 200V | (KV-C2161D) |
| | 1-136-113-00 | FILM | 2MF | 5% | 200V | (KV-C2561D,C2961D) |
| C812 | 1-124-634-11 | ELECT | 1MF | 20% | 250V | |
| C813 | 1-102-212-00 | CERAMIC | 820PF | 10% | 500V | |
| C814 ⚠ | 1-161-731-51 | CERAMIC | 0.001MF | 10% | 2KV | |
| C815 | 1-136-111-00 | FILM | 1MF | 5% | 200V | |
| | 1-136-540-11 | FILM | 0.82MF | 5% | 200V | (KV-C2161D,C2561D) |
| C817 ⚠ | 1-136-549-11 | FILM | 0.0106MF | 3% | 1.4KV | (KV-C2961D) |
| ⚠ | 1-136-565-11 | FILM | 0.015MF | 3% | 1.4KV | (KV-C2161D) |
| ⚠ | 1-136-591-11 | FILM | 0.017MF | 3% | 1.4KV | (KV-C2561D) |
| C818 ⚠ | 1-129-721-51 | FILM | 0.039MF | 10% | 630V | (KV-C2961D) |
| C819 ⚠ | 1-161-731-51 | CERAMIC | 0.001MF | 10% | 2KV | |
| C820 | 1-137-046-11 | FILM | 0.0082MF | 10% | 400V | |
| C821 ⚠ | 1-162-116-51 | CERAMIC | 680PF | 10% | 2KV | (KV-C2161D,C2561D) |
| ⚠ | 1-162-134-51 | CERAMIC | 470PF | 10% | 2KV | (KV-C2961D) |
| C822 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V | |
| C823 | 1-137-043-11 | FILM | 0.0047MF | 10% | 400V | |
| C824 | 1-102-212-00 | CERAMIC | 820PF | 10% | 500V | |
| C825 | 1-137-102-11 | FILM | 0.022MF | 10% | 250V | |
| C1601 ⚠ | 1-136-518-11 | FILM | 0.33MF | 20% | 300V | |
| C1602 ⚠ | 1-136-519-11 | FILM | 0.47MF | 20% | 300V | |
| C1603 ⚠ | 1-164-246-61 | CERAMIC | 0.0022MF | 20% | 400V | |
| C1605 ⚠ | 1-164-246-61 | CERAMIC | 0.0022MF | 20% | 400V | |
| C1607 ⚠ | 1-161-964-61 | CERAMIC | 0.0047MF | | 250V | |

<FILTER>

| | | |
|---|---|---|
| CF001 | 1-577-364-11 | VIBRATOR, CERAMIC |
| CF501 | 1-567-888-11 | OSCILLATOR, CERAMIC |

<CONNECTOR>

| | | |
|---|---|---|
| D1 | *1-568-881-51 | PIN, CONNECTOR 6P |
| D2 | *1-568-882-51 | PIN, CONNECTOR 7P |
| D11 | *1-565-394-11 | PIN, BOARD TO BOARD CONNECTOR |
| D12 | *1-565-394-11 | PIN, BOARD TO BOARD CONNECTOR |
| D18 | *1-560-290-00 | PLUG, CONNECTOR (2.5MM PITCH) (KV-C2161D,C2961D) |
| D21 | *1-565-394-11 | PIN, BOARD TO BOARD CONNECTOR |
| D22 | *1-565-394-11 | PIN, BOARD TO BOARD CONNECTOR |
| D31 | *1-565-394-11 | PIN, BOARD TO BOARD CONNECTOR |
| D32 | *1-565-394-11 | PIN, BOARD TO BOARD CONNECTOR |
| D33 | *1-565-394-11 | PIN, BOARD TO BOARD CONNECTOR |
| D41 | *1-566-367-11 | CONNECTOR, HINGE (RECEPTACLE) |
| D44 | *1-568-881-51 | PIN, CONNECTOR 6P |
| D45 | *1-568-881-51 | PIN, CONNECTOR 6P |
| D51 | *1-566-367-11 | CONNECTOR, HINGE (RECEPTACLE) |
| D62 | *1-565-395-11 | PIN, CONNECTOR 3P |
| D65 | *1-508-765-00 | PIN, CONNECTOR (5MM PITCH) 3P |
| D66 | *1-508-786-00 | PIN, CONNECTOR (5MM PITCH) 2P |
| D82 | *1-508-765-00 | PIN, CONNECTOR (5MM PITCH) 3P |
| D83 | *1-508-786-00 | PIN, CONNECTOR (5MM PITCH) 2P |
| D84 | *1-580-798-11 | CONNECTOR PIN (DY) 6P |
| D88 | *1-568-878-51 | PIN, CONNECTOR 3P (KV-C2961D) |
| D801 | *1-508-765-00 | PIN, CONNECTOR (5MM PITCH) 3P |

<DIODE>

| | | |
|---|---|---|
| D001 | 8-719-109-97 | DIODE RD6.8ES-B2 |
| D002 | 8-719-109-97 | DIODE RD6.8ES-B2 |
| D003 | 8-719-911-19 | DIODE 1SS119 |
| D005 | 8-719-109-89 | DIODE RD5.6ES-B2 |
| D006 | 8-719-982-24 | DIODE MTZJ-33A |
| D007 | 8-719-982-08 | DIODE MTZJ-3.9B |
| D009 | 8-719-109-89 | DIODE RD5.6ES-B2 |
| D010 | 8-719-921-54 | DIODE MTZJ-6.2B |
| D011 | 8-719-921-54 | DIODE MTZJ-6.2B |
| D012 | 8-719-911-19 | DIODE 1SS119 |
| D013 | 8-719-109-97 | DIODE RD6.8ES-B2 |
| D271 | 8-719-110-31 | DIODE RD12ES-B2 (KV-C2161D,C2561D) |
| | 8-719-921-88 | DIODE MTZJ-13B (KV-C2961D) |
| D272 | 8-719-911-19 | DIODE 1SS119 |

D

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| D501 | 8-719-911-19 | DIODE 1SS119 | |
| D504 | 8-719-911-55 | DIODE U05G | |
| D506 | 8-719-800-76 | DIODE 1SS226 (KV-C2161D,C2561D) | |
| D508 | 8-719-911-19 | DIODE 1SS119 | |
| D509 | 8-719-911-19 | DIODE 1SS119 (KV-C2561D,C2961D) | |
| D511 | 8-719-911-55 | DIODE U05G | |
| D512 | 8-719-911-55 | DIODE U05G | |
| D513 | 8-719-010-34 | DIODE UZ-4.7BSC | |
| D514 | 8-719-911-19 | DIODE 1SS119 (KV-C2961D) | |
| D515 | 8-719-911-19 | DIODE 1SS119 (KV-C2961D) | |
| D601 ⚠ | 8-719-510-63 | DIODE D4SB60L-F | |
| D602 | 8-719-300-33 | DIODE RU-3AM | |
| D603 | 8-719-911-55 | DIODE U05G | |
| D604 | 8-719-911-55 | DIODE U05G | |
| D605 | 8-719-911-55 | DIODE U05G | |
| D606 | 8-719-300-33 | DIODE RU-3AM | |
| D607 | 8-719-300-33 | DIODE RU-3AM | |
| D608 | 8-719-300-33 | DIODE RU-3AM | |
| D609 | 8-719-982-24 | DIODE MTZJ-33A | |
| D610 | 8-719-300-59 | DIODE CTU-12S | |
| D611 | 8-719-900-26 | DIODE ERD29-08J | |
| D612 | 8-719-300-59 | DIODE CTU-12S | |
| D613 | 8-719-979-85 | DIODE EGP20G | |
| D614 | 8-719-979-85 | DIODE EGP20G | |
| D616 | 8-719-921-54 | DIODE MTZJ-6.2B | |
| D617 | 8-719-911-19 | DIODE 1SS119 | |
| D618 | 8-719-109-89 | DIODE RD5.6ES-B2 | |
| D619 | 8-719-982-24 | DIODE MTZJ-33A | |
| D620 | 8-719-800-76 | DIODE 1SS226 | |
| D621 | 8-719-982-24 | DIODE MTZJ-33A | |
| D622 | 8-719-911-19 | DIODE 1SS119 | |
| D623 | 8-719-911-19 | DIODE 1SS119 | |
| D624 | 8-719-911-19 | DIODE 1SS119 | |
| D630 | 8-719-921-91 | DIODE MTZJ-15A | |
| D801 | 8-719-300-33 | DIODE RU-3AM | |
| D802 | 8-719-300-33 | DIODE RU-3AM | |
| D803 | 8-719-976-64 | DIODE RGP02-17 | |
| D804 | 8-719-911-55 | DIODE U05G | |
| D805 | 8-719-911-55 | DIODE U05G | |
| D806 | 8-719-945-80 | DIODE ERC06-15S | |
| D807 | 8-719-945-80 | DIODE ERC06-15S (KV-C2561D,C2961D) | |
| D808 | 8-719-928-08 | DIODE ERD28-08S (KV-C2161D) | |
| | 8-719-900-26 | DIODE ERD29-08J (KV-C2561D,C2961D) | |
| | | <IC> | |
| IC001 | 8-759-047-60 | IC SDA20560-A012 | |
| IC002 | 8-759-000-47 | IC MC14051BCP | |
| IC003 | 8-759-945-58 | IC RC4558P | |
| IC005 | 8-759-748-56 | IC SDA2546 | |
| IC251 | 8-759-988-94 | IC TDA2050 | |
| | 4-812-134-00 | RIVET NYLON, 3.5; IC251 | |
| IC261 | 8-759-988-94 | IC TDA2050 | |
| | 4-812-134-00 | RIVET NYLON, 3.5; IC261 | |
| IC501 | 8-759-970-73 | IC TEA2028B | |
| IC502 | 8-759-944-57 | IC TDA8170 | |
| IC601 | 8-759-988-95 | IC TEA2260 | |
| IC604 | 8-759-510-52 | IC TEA7605 | |
| IC608 | 8-759-929-62 | IC LM7812CT | |
| | | <COIL> | |
| L501 | 1-408-225-00 | INDUCTOR 3.3UH | |
| L601 | 1-420-872-00 | COIL, AIR CORE | |

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| L602 | 1-410-396-41 | FERRITE BEAD INDUCTOR | |
| L603 | 1-410-396-41 | FERRITE BEAD INDUCTOR | |
| L604 | 1-410-671-31 | INDUCTOR 47UH | |
| L605 | 1-459-585-11 | COIL (WITH CORE) (DRUM TYPE) | |
| L606 | 1-412-529-11 | INDUCTOR 22UH | |
| L607 | 1-410-671-31 | INDUCTOR 47UH | |
| L801 | 1-459-087-00 | COIL,HCC DUST CORE 3.9MMH (KV-C2961D) | |
| L803 | 1-459-104-00 | COIL, WITH CORE | |
| L804 | 1-408-239-00 | INDUCTOR 4.7MMH | |
| L805 | 1-459-652-12 | HLC (KV-C2161D) | |
| | 1-459-755-11 | COIL, HORIZONTAL LINEARITY (KV-C2561D) | |
| | 1-459-907-11 | COIL, HORIZONTAL LINEARITY (KV-C2961D) | |
| L806 | 1-459-115-00 | COIL, DCC-H (KV-C2161D) | |
| | 1-459-111-00 | COIL, DRAM CORE (CD1) (KV-C2561D) | |
| | 1-459-087-00 | COIL,HCC DUST CORE 3.9MMH (KV-C2961D) | |
| L809 | 1-420-872-00 | COIL, AIR CORE | |
| L810 | 1-459-390-00 | COIL (WITH CORE) (KV-C2161D) | |
| | 1-421-982-11 | PMC (KV-C2561D) | |
| | 1-421-794-21 | TRANSFORMER, FERRITE (PMT) (KV-C2961D) | |
| | | <TRANSFORMER> | |
| LF1601 ⚠ | 1-421-866-12 | LFT | |
| LF1602 ⚠ | 1-421-776-21 | LFT | |
| LF1603 ⚠ | 1-421-862-11 | LFT | |
| T601 | ⚠ 1-450-038-11 | S.R.T (KV-C2161D,C2561D) | |
| | ⚠ 1-450-037-11 | S.R.T (KV-C2961D) | |
| T602 | ⚠ 1-424-277-11 | TRANSFORMER, TRIGGER PULSE | |
| T801 | ⚠ 1-437-090-21 | HDT | |
| T802 | ⚠ 1-439-416-51 | TRANSFORMER ASSY, FLYBACK (UX-1650) (KV-C2161D,C2961D) | |
| | ⚠ 1-439-416-41 | TRANSFORMER ASSY, FLYBACK (NX-1604) (KV-C2561D) | |
| | | <IC LINK> | |
| PS601 ⚠ | 1-532-984-91 | LINK, IC 2A | |
| PS602 ⚠ | 1-532-984-91 | LINK, IC 2A | |
| PS603 ⚠ | 1-532-679-91 | LINK, IC 0.6A | |
| PS604 ⚠ | 1-532-984-91 | LINK, IC 2A | |
| | | <TRANSISTOR> | |
| Q001 | 8-729-901-01 | TRANSISTOR DTC144EK | |
| Q002 | 8-729-901-01 | TRANSISTOR DTC144EK | |
| Q003 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q004 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q005 | 8-729-901-01 | TRANSISTOR DTC144EK | |
| Q006 | 8-729-901-01 | TRANSISTOR DTC144EK | |
| Q007 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q008 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q009 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q010 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q251 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q261 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q271 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q502 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q505 | 8-729-140-96 | TRANSISTOR 2SD774-34 | |
| Q506 | 8-729-140-97 | TRANSISTOR 2SB734-34 | |
| Q507 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q598 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q601 | 8-729-122-03 | TRANSISTOR 2SA1220A-P | |
| Q602 | 8-729-209-02 | TRANSISTOR 2SD1548-LB | |
| Q603 | 8-729-122-03 | TRANSISTOR 2SA1220A-P | |

**D**

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| Q604 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q605 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q606 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q607 | 8-729-920-92 | TRANSISTOR 2SD2096-EF | |
| Q608 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q609 | 8-729-320-62 | TRANSISTOR 2SD789-34 | |
| Q801 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q804 | 8-729-304-50 | TRANSISTOR 2SD1941-06 | |
| Q805 | 8-729-119-80 | TRANSISTOR 2SC2688-LK | |

<RESISTOR>

| | | | | | |
|---|---|---|---|---|---|
| JR1 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR3 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR4 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR7 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| R001 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R002 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R003 | 1-216-198-00 | METAL GLAZE | 1K | 5% | 1/8W |
| R004 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R005 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R006 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R007 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R008 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R009 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R010 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R012 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R013 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R014 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W |
| R015 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W |
| R016 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W |
| R017 | 1-216-689-11 | METAL GLAZE | 39K | 5% | 1/10W |
| R018 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1/10W |
| R019 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R020 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R021 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R022 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R024 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R025 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R026 | 1-216-182-00 | METAL GLAZE | 220 | 5% | 1/8W |
| R027 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R028 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R029 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R030 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R031 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R032 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R033 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R034 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W |
| R035 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R036 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W |
| R037 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% | 1/10W |
| R038 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% | 1/10W |
| R039 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R040 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W |
| R041 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R042 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R043 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R044 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R045 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W |
| R046 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1/10W |
| R047 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R048 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R049 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R050 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W |

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R051 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R052 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R053 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R054 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R055 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R056 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R057 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R058 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R059 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R060 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R061 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R062 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R063 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R064 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R065 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R066 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R067 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R068 | 1-216-174-00 | METAL GLAZE | 100 | 5% | 1/8W | |
| R069 | 1-216-174-00 | METAL GLAZE | 100 | 5% | 1/8W | |
| R070 | 1-216-198-00 | METAL GLAZE | 1K | 5% | 1/8W | |
| R071 | 1-216-198-00 | METAL GLAZE | 1K | 5% | 1/8W | |
| R072 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W | |
| R073 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R075 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R076 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R077 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | (KV-C2161D,C2961D) |
| R078 | 1-216-198-00 | METAL GLAZE | 1K | 5% | 1/8W | |
| R079 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R080 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R081 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R083 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R084 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R085 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R086 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R087 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W | |
| R088 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| R093 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R094 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R095 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R096 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R098 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R251 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R252 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | |
| R253 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R254 | 1-216-357-00 | METAL OXIDE | 4.7 | 5% | 1W | F |
| R255 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R256 | 1-216-115-00 | METAL GLAZE | 560K | 5% | 1/10W | |
| R257 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R258 | 1-215-869-11 | METAL OXIDE | 1K | 5% | 1W | F |
| R259 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R261 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R262 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | |
| R263 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R264 | 1-216-357-00 | METAL OXIDE | 4.7 | 5% | 1W | F |
| R265 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R266 | 1-216-115-00 | METAL GLAZE | 560K | 5% | 1/10W | |
| R267 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R268 | 1-215-869-11 | METAL OXIDE | 1K | 5% | 1W | F |
| R269 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R270 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R271 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R272 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R273 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R274 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R500 | 1-216-115-00 | METAL GLAZE | 560K | 5% | 1/10W | |
| R501 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R502 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R503 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W | |
| R504 | 1-249-420-11 | CARBON | 1.8K | 5% | 1/4W | |
| R505 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R506 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W | |
| R509 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R510 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R514 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R515 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R517 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R518 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R519 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R520 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R521 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R522 | 1-215-469-00 | METAL | 100K | 1% | 1/4W | |
| R523 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R524 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R525 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | (KV-C2161D,C2561D) |
| R526 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | F |
| R527 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R528 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W | |
| R529 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% | 1/10W | |
| R530 | 1-249-448-11 | CARBON | 1.2 | 5% | 1/4W | F |
| R531 | 1-216-099-00 | METAL GLAZE | 120K | 5% | 1/10W | (KV-C2561D,C2961D) |
| R532 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | (KV-C2561D,C2961D) |
| R533 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W | (KV-C2161D) |
| | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | (KV-C2561D,C2961D) |
| R534 | 1-216-119-00 | METAL GLAZE | 820K | 5% | 1/10W | |
| R535 | 1-249-753-15 | CARBON | 4.7M | 5% | 1/4W | (KV-C2161D) |
| | 1-249-749-00 | CARBON | 2.2M | 5% | 1/4W | (KV-C2561D,C2961D) |
| R536 | 1-216-129-00 | METAL GLAZE | 2.2M | 5% | 1/10W | |
| R537 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W | |
| R538 | 1-216-101-00 | METAL GLAZE | 150K | 5% | 1/10W | |
| R539 | 1-216-101-00 | METAL GLAZE | 150K | 5% | 1/10W | |
| R540 | 1-216-013-00 | METAL GLAZE | 33 | 5% | 1/10W | |
| R541 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |
| R542 | 1-216-308-00 | METAL GLAZE | 4.7 | 5% | 1/10W | |
| R543 | 1-249-451-11 | CARBON | 2.2 | 5% | 1/4W | |
| R544 | 1-247-745-11 | CARBON | 330 | 5% | 1/2W | |
| R545 | 1-216-689-11 | METAL GLAZE | 39K | 5% | 1/10W | (KV-C2161D) |
| | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | (KV-C2561D,C2961D) |
| R546 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W | |
| R547 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | (KV-C2161D) |
| | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | (KV-C2561D,C2961D) |
| R548 | 1-216-350-11 | METAL OXIDE | 1.2 | 5% | 1W | F (KV-C2161D) |
| | 1-216-349-00 | METAL OXIDE | 1 | 5% | 1W | F (KV-C2561D,C2961D) |
| R549 | 1-215-890-11 | METAL OXIDE | 470 | 5% | 2W | F (KV-C2161D) |
| R549 | 1-216-454-11 | METAL OXIDE | 390 | 5% | 2W | F (KV-C2561D,C2961D) |
| R550 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1/10W | |
| R551 | 1-216-129-00 | METAL GLAZE | 2.2M | 5% | 1/10W | |
| R552 | 1-216-433-00 | METAL OXIDE | 1.2K | 5% | 1W | F (KV-C2161D) |
| R553 | 1-215-869-11 | METAL OXIDE | 1K | 5% | 1W | |
| R554 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R555 | 1-216-129-00 | METAL GLAZE | 2.2M | 5% | 1/10W | |
| R556 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R557 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R558 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R559 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% | 1/10W | |
| R560 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R561 | 1-216-107-00 | METAL GLAZE | 270K | 5% | 1/10W | |
| R570 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | (KV-C2961D) |
| R591 | 1-216-047-00 | METAL GLAZE | 820 | 5% | 1/10W | (KV-C2961D) |
| R592 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R593 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | |
| R594 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W | |
| R597 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R598 | 1-215-900-11 | METAL OXIDE | 22K | 5% | 2W | F |
| R600 | 1-249-381-11 | CARBON | 1 | 5% | 1/4W | |
| R601 | 1-216-353-00 | METAL OXIDE | 2.2 | 5% | 1W | F (KV-C2561D,C2961D) |
| R603 | 1-215-906-11 | METAL OXIDE | 15 | 5% | 3W | F |
| | 1-216-469-11 | METAL OXIDE | 12 | 5% | 3W | F (KV-C2161D) |
| R604 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | (KV-C2561D,C2961D) |
| R605 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R606 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W | |
| R607 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | (KV-C2161D,C2561D) |
| R608 | 1-216-488-11 | METAL OXIDE | 18K | 5% | 3W | F (KV-C2961D) |
| R609 | 1-216-007-00 | METAL GLAZE | 18 | 5% | 1/10W | |
| R610 | 1-244-941-00 | CARBON | 680K | 5% | 1/2W | |
| R611 | 1-216-015-00 | METAL GLAZE | 39 | 5% | 1/10W | |
| R612 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R613 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R614 | 1-205-758-11 | WIREWOUND | 100 | 10% | 10W | F |
| R616 | 1-216-099-00 | METAL GLAZE | 120K | 5% | 1/10W | |
| R617 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R618 | 1-216-431-11 | METAL OXIDE | 560 | 5% | 1W | F |
| R619 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R620 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R621 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R622 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R623 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R624 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R625 | 1-215-865-11 | METAL OXIDE | 220 | 5% | 1W | F |
| R626 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R628 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | |
| R629 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R631 | 1-216-465-11 | METAL OXIDE | 27K | 5% | 2W | (KV-C2161D, C2561D) |
| R633 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R634 | 1-216-430-11 | METAL OXIDE | 390 | 5% | 1W | F |

# D VM V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R635 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R636 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R643 | 1-217-190-21 | WIREWOUND | 0.15 | 5% | 2W | F |
| | | | | | | (KV-C2161D) |
| | 1-217-189-21 | WIREWOUND | 0.12 | 5% | 2W | F |
| | | | | | | (KV-C2561D,C2961D) |
| R651 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R653 | 1-205-758-11 | WIREWOUND | 100 | 10% | 10W | F |
| R802 | 1-249-443-11 | CARBON | 0.47 | 5% | 1/4W | F |
| R805 | 1-249-448-11 | CARBON | 1.2 | 5% | 1/4W | F |
| R806 | 1-216-093-00 | METAL GLAZE | 68K | 5% | 1/10W | |
| R807 | 1-217-778-11 | FUSIBLE | 1K | 5% | 1W | F |
| R809 | 1-202-821-11 | SOLID | 1.8K | 10% | 1/2W | |
| R810 | 1-202-818-00 | SOLID | 1K | 10% | 1/2W | |
| R811 | 1-215-863-11 | METAL OXIDE | 100 | 5% | 1W | F |
| | | | | | | (KV-C2161D) |
| | 1-215-882-00 | METAL OXIDE | 22 | 5% | 2W | F |
| | | | | | | (KV-C2561D,C2961D) |
| R812 | 1-247-285-00 | CARBON | 75K | 5% | 1/2W | |
| | | | | | | (KV-C2161D) |
| | 1-249-494-11 | CARBON | 68K | 5% | 1/2W | |
| | | | | | | (KV-C2561D) |
| | 1-247-281-00 | CARBON | 51K | 5% | 1/2W | |
| | | | | | | (KV-C2961D) |
| R815 | 1-215-884-11 | METAL OXIDE | 47 | 5% | 2W | F |
| R816 | 1-215-868-00 | METAL OXIDE | 680 | 5% | 1W | F |
| R817 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R820 | 1-249-403-11 | CARBON | 68 | 5% | 1/4W | |
| R821 | 1-247-725-11 | CARBON | 10K | 5% | 1/4W | F |
| R822 | 1-217-778-11 | FUSIBLE | 1K | 5% | 1W | F |
| R825 | 1-216-349-00 | METAL OXIDE | 1 | 5% | 1W | F |
| | | | | | | (KV-C2161D) |
| | 1-216-345-11 | METAL OXIDE | 0.47 | 5% | 1W | F |
| | | | | | | (KV-C2561D,C2961D) |
| R826 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R827 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R828 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| R829 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W | |
| R831 | 1-249-451-11 | CARBON | 2.2 | 5% | 1/4W | |
| R1601⚠ | 1-246-513-75 | CARBON | 47K | 5% | 1/4W | |
| R1602⚠ | 1-244-945-91 | CARBON | 1M | 5% | 1/2W | |
| R1603⚠ | 1-217-328-11 | WIREWOUND | 2.7 | 10% | 7W | F |
| R1604⚠ | 1-246-513-75 | CARBON | 47K | 5% | 1/4W | |
| R1605A⚠ | 1-218-265-91 | METAL GLAZE | 8.2M | 5% | 1W | |
| R5501 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R5503 | 1-216-308-00 | METAL GLAZE | 4.7 | 5% | 1/10W | |
| | | | | | | (KV-C2161D,C2561D) |
| | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | |
| | | | | | | (KV-C2961D) |
| R5504 | 1-216-121-00 | METAL GLAZE | 1M | 5% | 1/10W | |
| R5505 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | |
| R5506 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| | | | | | | (KV-C2961D) |

<VARIABLE RESISTOR>

| | | |
|---|---|---|
| RV501 | 1-238-013-11 | RES, ADJ, CARBON 2.2K |
| RV502 | 1-238-016-11 | RES, ADJ, CARBON 10K |
| RV601 | 1-238-011-11 | RES, ADJ, CARBON 470 |

<SPARK GAP>

| | | |
|---|---|---|
| SG801 | 1-519-422-11 | GAP, SPARK |

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|

<THERMISTOR>

| | | | |
|---|---|---|---|
| THP601⚠ | 1-808-059-32 | THERMISTOR, POSITIVE | |

**********

*1-634-193-11 VM BOARD (KV-C2961D)
********

<CAPACITOR>

| | | | | | |
|---|---|---|---|---|---|
| C751 | 1-101-361-00 | CERAMIC | 150PF | 5% | 50V |
| C752 | 1-108-629-11 | MYLAR | 0.018MF | 10% | 100V |
| C753 | 1-137-047-11 | FILM | 0.01MF | 10% | 400V |
| C754 | 1-102-980-00 | CERAMIC | 270PF | 5% | 50V |
| C757 | 1-108-692-11 | MYLAR | 0.01MF | 10% | 200V |
| C759 | 1-124-907-11 | ELECT | 10MF | 20% | 50V |
| C760 | 1-124-917-11 | ELECT | 33MF | 20% | 50V |
| C761 | 1-101-006-00 | CERAMIC | 0.047MF | | 50V |
| C762 | 1-137-047-11 | FILM | 0.01MF | 10% | 400V |

<COIL>

| | | | |
|---|---|---|---|
| L751 | 1-408-413-00 | INDUCTOR | 22UH |
| L770 | 1-410-665-31 | INDUCTOR | 15UH |

<TRANSISTOR>

| | | |
|---|---|---|
| Q751 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q752 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q753 | 8-729-140-97 | TRANSISTOR 2SB734-34 |
| Q754 | 8-729-140-96 | TRANSISTOR 2SD774-34 |

<RESISTOR>

| | | | | | | |
|---|---|---|---|---|---|---|
| R751 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W | |
| R752 | 1-249-426-11 | CARBON | 5.6K | 5% | 1/4W | |
| R753 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W | |
| R754 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W | |
| R755 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R756 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W | |
| R757 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R758 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R760 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| R761 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R762 | 1-247-895-00 | CARBON | 470K | 5% | 1/4W | |
| R763 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R764 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W | F |
| R765 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W | F |
| R766 | 1-247-753-11 | CARBON | 1.2K | 5% | 1/2W | |
| R767 | 1-247-751-11 | CARBON | 820 | 5% | 1/2W | |
| R768 | 1-215-887-00 | METAL OXIDE | 150 | 5% | 2W | F |
| R769 | 1-212-889-00 | FUSIBLE | 220 | 5% | 1/4W | F |

<CONNECTOR>

| | | |
|---|---|---|
| VM73 | *1-568-878-51 | PIN, CONNECTOR 3P |
| VM88 | *1-568-878-51 | PIN, CONNECTOR 3P |

**********

*A-1645-013-A V BOARD, COMPLETE (KV-C2161D, C2961D)
**********
*A-1645-022-A V BOARD, COMPLETE (KV-C2561D)
**********

V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| | | <CAPACITOR> | | | |
| C1 | 1-126-101-11 | ELECT 100MF | 20% | 16V | |
| C2 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | |
| C3 | 1-124-120-11 | ELECT 220MF | 20% | 16V | |
| C4 | 1-163-077-00 | CERAMIC CHIP 0.1MF | | 50V | |
| C5 | 1-124-120-11 | ELECT 220MF | 20% | 16V | |
| C6 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | |
| C7 | 1-163-235-11 | CERAMIC CHIP 22PF | 5% | 50V | (KV-C2561D) |
| C8 | 1-163-235-11 | CERAMIC CHIP 22PF | 5% | 50V | (KV-C2561D) |
| C9 | 1-163-235-11 | CERAMIC CHIP 22PF | 5% | 50V | (KV-C2561D) |
| C10 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | |
| C11 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | |
| C12 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | |
| C13 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | |
| C14 | 1-124-927-11 | ELECT 4.7MF | 20% | 50V | |
| C15 | 1-126-233-11 | ELECT 22MF | 20% | 50V | |
| C16 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V | |
| C17 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V | |
| C18 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V | |
| C26 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | |
| C27 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% | 50V | |
| C28 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% | 50V | |
| C29 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% | 50V | |
| C32 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | |
| C33 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | |
| | | <CONNECTOR> | | | |
| CNV1 | *1-565-393-11 | CONNECTOR, BOARD TO BOARD | | | |
| CNV2 | *1-565-393-11 | CONNECTOR, BOARD TO BOARD | | | |
| | | <DIODE> | | | |
| D1 | 8-719-105-91 | DIODE RD5.6M-B2 | | | |
| D3 | 8-719-914-44 | DIODE DAP202K (KV-C2161D,C2961D) | | | |
| | 8-719-104-34 | DIODE 1S2836 (KV-C2561D) | | | |
| D4 | 8-719-400-18 | DIODE MA152WK | | | |
| D5 | 8-719-914-44 | DIODE DAP202K (KV-C2161D,C2961D) | | | |
| | 8-719-104-34 | DIODE 1S2836 (KV-C2561D) | | | |
| D6 | 8-719-400-18 | DIODE MA152WK | | | |
| D7 | 8-719-105-52 | DIODE RD3.6M-B2 | | | |
| D9 | 8-719-106-17 | DIODE RD6.8M-B2 | | | |
| | | <IC> | | | |
| IC1 | 8-759-039-18 | IC SDA20162-B002 | | | |
| IC2 | 8-759-045-54 | IC SAA5246P/E/M4A | | | |
| IC3 | 8-759-510-49 | IC PCB61C65L-70P | | | |
| | | <COIL> | | | |
| L1 | 1-408-403-00 | INDUCTOR 3.3UH | | | |
| L2 | 1-408-407-00 | INDUCTOR 6.8UH | | | |
| L3 | 1-408-407-00 | INDUCTOR 6.8UH | | | |
| L4 | 1-408-407-00 | INDUCTOR 6.8UH | | | |
| | | <IC LINK> | | | |
| PS1 | ⚠1-532-679-91 | LINK, IC 0.6A | | | |

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| | | <TRANSISTOR> | | | |
| Q1 | 8-729-900-53 | TRANSISTOR DTC114EK | | | |
| Q2 | 8-729-920-92 | TRANSISTOR 2SD2096-EF | | | |
| Q3 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | |
| Q4 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | |
| Q5 | 8-729-807-87 | TRANSISTOR 2SB1295-UL6 | | | |
| Q6 | 8-729-807-87 | TRANSISTOR 2SB1295-UL6 | | | |
| Q7 | 8-729-807-87 | TRANSISTOR 2SB1295-UL6 | | | |
| Q8 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | |
| | | <RESISTOR> | | | |
| JR01 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR02 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR03 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR08 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR09 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR11 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR14 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR17 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR18 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR19 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR20 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR21 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR23 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR24 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR25 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR26 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR201 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR204 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR207 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR208 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR211 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR213 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR219 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR220 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR223 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| R1 | 1-218-326-11 | METAL GLAZE | 470 | 5% | 1/2W |
| R3 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R4 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R5 | 1-216-047-00 | METAL GLAZE | 820 | 5% | 1/10W |
| R6 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W |
| R7 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W |
| R8 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W |
| R9 | 1-216-308-00 | METAL GLAZE | 4.7 | 5% | 1/10W |
| R02 | 1-216-214-00 | METAL GLAZE | 4.7K | 5% | 1/8W |
| R10 | 1-218-325-11 | METAL GLAZE | 120 | 5% | 1/4W |
| R11 | 1-218-325-11 | METAL GLAZE | 120 | 5% | 1/4W |
| R12 | 1-218-325-11 | METAL GLAZE | 120 | 5% | 1/4W |
| R13 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R14 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W |
| R15 | 1-216-013-00 | METAL GLAZE | 33 | 5% | 1/10W |
| R16 | 1-216-013-00 | METAL GLAZE | 33 | 5% | 1/10W |
| R17 | 1-216-013-00 | METAL GLAZE | 33 | 5% | 1/10W |
| R18 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R19 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R20 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R21 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R22 | 1-216-168-00 | METAL GLAZE | 56 | 5% | 1/8W |
| R23 | 1-216-214-00 | METAL GLAZE | 4.7K | 5% | 1/8W |
| R24 | 1-216-055-00 | METAL GLAZE | 1.8K | 5% | 1/10W |
| R25 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |

# V H2 H1 J1

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R26 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R27 | 1-216-214-00 | METAL GLAZE | 4.7K | 5% | 1/8W | |
| R28 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R34 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R35 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R40 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R41 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R42 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R44 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R46 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R47 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R49 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R50 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| | | <VARIABLE RESISTOR> | | | | |
| RV1 | 1-238-012-11 | RES, ADJ, CARBON 1K | | | | |
| | | <CRYSTAL> | | | | |
| X1 | 1-579-266-31 | CRYSTAL VIBRATOR | | | | |
| X2 | 1-577-364-11 | VIBRATOR, CERAMIC | | | | |

**********

| | | | |
|---|---|---|---|
| | *1-638-392-11 | H2 BOARD (KV-C2161D,C2961D) | |
| | | ******** | |
| | *1-638-745-11 | H2 BOARD (KV-C2561D) | |
| | | ******** | |
| | *4-374-987-01 | GUIDE, LIGHT | |
| | *4-381-686-01 | BRACKET (B), LIGHT GUIDE | |
| | | <DIODE> | |
| D1651 | 8-719-948-31 | DIODE LD-201VR | |
| | *4-201-076-01 | HOLDER, LED; D1651 | |
| D1652 | 8-719-948-31 | DIODE LD-201VR | |
| | *4-201-076-01 | HOLDER, LED; D1652 | |
| D1654 | 8-719-948-31 | DIODE LD-201VR | |
| | *4-201-076-01 | HOLDER, LED; D1654 | |
| | | <CONNECTOR> | |
| H2-2 | *1-568-882-51 | PIN, CONNECTOR 7P | |
| | | <IC> | |
| IC1651 | 8-741-101-75 | IC SBX1610-11 | |
| | | <RESISTOR> | |
| R1662 | 1-249-413-11 | CARBON 470 5% 1/4W | |

**********

| | | | |
|---|---|---|---|
| | *1-638-391-11 | H1 BOARD (KV-C2161D,C2961D) | |
| | | ******** | |
| | *1-638-744-11 | H1 BOARD (KV-C2561D) | |
| | | ******** | |
| | | <CAPACITOR> | |
| C1651 | 1-102-106-00 | CERAMIC 100PF 10% 50V | |
| C1652 | 1-102-106-00 | CERAMIC 100PF 10% 50V | |
| C1653 | 1-102-074-00 | CERAMIC 0.001MF 10% 50V | |
| C1655 | 1-102-074-00 | CERAMIC 0.001MF 10% 50V | |
| | | <CONNECTOR> | |
| H1-1 | *1-568-881-51 | PIN, CONNECTOR 6P | |
| H1-02 | 1-568-678-11 | TERMINAL BLOCK, S 3P | |
| H1-4 | *1-568-879-51 | PIN, CONNECTOR 4P | |
| H1-05 | 1-562-837-11 | JACK | |
| H1-23 | *1-568-879-51 | PIN, CONNECTOR 4P | |
| H1-26 | *1-568-877-51 | PIN, CONNECTOR 2P (KV-C2961D) | |
| H1-43 | *1-564-512-11 | PLUG, CONNECTOR 9P | |
| | | <RESISTOR> | |
| R1651 | 1-249-413-11 | CARBON 470 5% 1/4W | |
| R1652 | 1-249-413-11 | CARBON 470 5% 1/4W | |
| | | <SWITCH> | |
| S1651 | 1-571-532-21 | SWITCH, TACTIL , | |
| S1652 | 1-571-532-21 | SWITCH, TACTIL | |
| S1653 | 1-571-532-21 | SWITCH, TACTIL | |

**********

| | | | |
|---|---|---|---|
| | *A-1651-018-A | J1 BOARD, COMPLETE (KV-C2161D) | |
| | | ********** | |
| | *A-1651-023-A | J1 BOARD, COMPLETE (KV-C2561D) | |
| | | ********** | |
| | *A-1651-038-A | J1 BOARD, COMPLETE (KV-C2961D) | |
| | | ********** | |
| | | <CAPACITOR> | |
| C203 | 1-124-925-11 | ELECT 2.2MF 20% 50V | |
| C205 | 1-124-927-11 | ELECT 4.7MF 20% 50V | |
| C206 | 1-124-925-11 | ELECT 2.2MF 20% 50V | |
| C207 | 1-124-927-11 | ELECT 4.7MF 20% 50V | |
| C213 | 1-126-233-11 | ELECT 22MF 20% 50V | |
| C214 | 1-137-045-11 | FILM 0.0068MF 10% 400V | |
| C217 | 1-137-045-11 | FILM 0.0068MF 10% 400V | |
| C218 | 1-137-102-11 | FILM 0.022MF 10% 250V | |
| C219 | 1-137-102-11 | FILM 0.022MF 10% 250V | |
| C220 | 1-108-686-11 | MYLAR 0.0033MF 10% 100V | |
| C221 | 1-108-686-11 | MYLAR 0.0033MF 10% 100V | |
| C222 | 1-137-095-11 | FILM 0.056MF 10% 100V | |
| C223 | 1-137-095-11 | FILM 0.056MF 10% 100V | |
| C224 | 1-137-047-11 | FILM 0.01MF 10% 400V | |
| C225 | 1-136-173-00 | FILM 0.47MF 5% 50V | |
| C226 | 1-136-173-00 | FILM 0.47MF 5% 50V | |
| C227 | 1-137-102-11 | FILM 0.022MF 10% 250V | |
| C228 | 1-137-104-11 | FILM 0.033MF 10% 250V | |
| C229 | 1-137-049-11 | FILM 0.015MF 10% 400V | |
| C230 | 1-137-049-11 | FILM 0.015MF 10% 400V | |
| C231 | 1-124-902-00 | ELECT 0.47MF 20% 50V | |
| C232 | 1-124-907-11 | ELECT 10MF 20% 50V | |
| C233 | 1-163-005-11 | CERAMIC CHIP 470PF 10% 50V | |
| C234 | 1-163-005-11 | CERAMIC CHIP 470PF 10% 50V | |
| C235 | 1-163-005-11 | CERAMIC CHIP 470PF 10% 50V | |
| C236 | 1-163-005-11 | CERAMIC CHIP 470PF 10% 50V | |
| C237 | 1-124-902-00 | ELECT 0.47MF 20% 50V | |
| C238 | 1-163-125-00 | CERAMIC CHIP 220PF 5% 50V | |
| C239 | 1-126-103-11 | ELECT 470MF 20% 16V | |
| C240 | 1-163-018-00 | CERAMIC CHIP 0.0056MF 10% 50V | |
| C241 | 1-163-018-00 | CERAMIC CHIP 0.0056MF 10% 50V | |

| REF.NO. | PART NO. | DESCRIPTION | | REMARK |
|---|---|---|---|---|
| C242 | 1-163-033-00 | CERAMIC CHIP 0.022MF | | 50V |
| C243 | 1-163-033-00 | CERAMIC CHIP 0.022MF | | 50V |
| C244 | 1-163-033-00 | CERAMIC CHIP 0.022MF | | 50V |
| C245 | 1-163-033-00 | CERAMIC CHIP 0.022MF | | 50V |
| C1401 | 1-124-907-11 | ELECT 10MF | 20% | 50V |
| C1402 | 1-126-103-11 | ELECT 470MF | 20% | 16V |
| C1403 | 1-163-003-11 | CERAMIC CHIP 330PF | 10% | 50V |
| C1404 | 1-137-098-11 | FILM 0.1MF | 10% | 100V |
| C1405 | 1-163-029-11 | CERAMIC CHIP 0.0047MF | | 50V |
| C1406 | 1-137-098-11 | FILM 0.1MF | 10% | 100V |
| C1407 | 1-124-910-11 | ELECT 47MF | 20% | 50V |
| C1408 | 1-124-122-11 | ELECT 100MF | 20% | 50V |
| C1409 | 1-126-233-11 | ELECT 22MF | 20% | 50V |
| C1410 | 1-124-907-11 | ELECT 10MF | 20% | 50V |
| C1411 | 1-124-907-11 | ELECT 10MF | 20% | 50V |
| C1412 | 1-124-910-11 | ELECT 47MF | 20% | 50V |
| C1413 | 1-124-910-11 | ELECT 47MF | 20% | 50V |
| C1414 | 1-124-907-11 | ELECT 10MF | 20% | 50V |
| C1415 | 1-137-098-11 | FILM 0.1MF | 10% | 100V |
| C1416 | 1-137-098-11 | FILM 0.1MF | 10% | 100V |
| C1417 | 1-124-120-11 | ELECT 220MF | 20% | 16V |
| C1418 | 1-163-003-11 | CERAMIC CHIP 330PF | 10% | 50V |
| C1419 | 1-163-003-11 | CERAMIC CHIP 330PF | 10% | 50V |
| C1425 | 1-124-902-00 | ELECT 0.47MF | 20% | 50V |
| C1426 | 1-124-902-00 | ELECT 0.47MF | 20% | 50V |
| C1427 | 1-163-029-11 | CERAMIC CHIP 0.0047MF | | 50V |
| C1428 | 1-163-029-11 | CERAMIC CHIP 0.0047MF | | 50V |
| C1429 | 1-163-029-11 | CERAMIC CHIP 0.0047MF | | 50V |
| C1430 | 1-163-003-11 | CERAMIC CHIP 330PF | 10% | 50V |
| C1431 | 1-126-529-11 | ELECT 0.47MF | 20% | 50V |
| C1432 | 1-124-902-00 | ELECT 0.47MF | 20% | 50V |
| C1433 | 1-124-122-11 | ELECT 100MF | 20% | 50V |
| C1436 | 1-163-009-11 | CERAMIC CHIP 0.001MF | 10% | 50V |
| C1437 | 1-163-009-11 | CERAMIC CHIP 0.001MF | 10% | 50V |
| C1438 | 1-137-047-11 | FILM 0.01MF | 10% | 400V |
| C1439 | 1-137-047-11 | FILM 0.01MF | 10% | 400V |
| C1440 | 1-124-907-11 | ELECT 10MF | 20% | 50V |
| C1441 | 1-124-907-11 | ELECT 10MF | 20% | 50V |
| C1442 | 1-137-098-11 | FILM 0.1MF | 10% | 100V |
| C1443 | 1-137-098-11 | FILM 0.1MF | 10% | 100V |
| C1444 | 1-124-910-11 | ELECT 47MF | 20% | 50V |
| C1445 | 1-102-824-00 | CERAMIC 470PF | 5% | 50V |
| C1446 | 1-102-824-00 | CERAMIC 470PF | 5% | 50V |
| C1501 | 1-124-927-11 | ELECT 4.7MF | 20% | 50V |
| C1502 | 1-124-903-11 | ELECT 1MF | 20% | 50V |
| C1503 | 1-108-680-11 | MYLAR 0.001MF | 10% | 100V |
| C1504 | 1-124-910-11 | ELECT 47MF | 20% | 50V |
| C1505 | 1-137-094-11 | FILM 0.047MF | 10% | 100V |
| C1507 | 1-108-686-11 | MYLAR 0.0033MF | 10% | 100V |
| C1508 | 1-124-903-11 | ELECT 1MF | 20% | 50V |
| C1509 | 1-124-903-11 | ELECT 1MF | 20% | 50V |
| C1511 | 1-124-927-11 | ELECT 4.7MF | 20% | 50V |
| C1512 | 1-137-045-11 | FILM 0.0068MF | 10% | 400V (KV-C2161D,C2561D) |
| C1513 | 1-163-105-00 | CERAMIC CHIP 33PF | 5% | 50V |
| C1514 | 1-137-102-11 | FILM 0.022MF | 10% | 250V (KV-C2161D,C2561D) |
| C1515 | 1-102-117-00 | CERAMIC 820PF | 10% | 50V (KV-C2161D,C2561D) |

<CONNECTOR>

| | | | |
|---|---|---|---|
| CN1401 | 1-565-838-11 | JACK BLOCK, PIN 2P | |
| J1-41 | *1-566-641-11 | CONNECTOR, HINGE (TAB) 18P | |
| J1-43 | *1-564-524-11 | PLUG, CONNECTOR 9P | |
| J1-44 | *1-564-527-11 | PLUG, CONNECTOR 12P | |
| J1-51 | *1-566-641-11 | CONNECTOR, HINGE (TAB) 18P | |

<DIODE>

| | | | |
|---|---|---|---|
| D201 | 8-719-110-14 | DIODE RD9.1ES-B3 | |
| D202 | 8-719-110-14 | DIODE RD9.1ES-B3 | |
| D205 | 8-719-110-03 | DIODE RD7.5ES-B2 | |
| D206 | 8-719-110-03 | DIODE RD7.5ES-B2 | |
| D1401 | 8-719-110-03 | DIODE RD7.5ES-B2 | |
| D1403 | 8-719-110-03 | DIODE RD7.5ES-B2 | |
| D1404 | 8-719-110-03 | DIODE RD7.5ES-B2 | |
| D1405 | 8-719-110-03 | DIODE RD7.5ES-B2 | |
| D1406 | 8-719-110-03 | DIODE RD7.5ES-B2 | |
| D1407 | 8-719-921-77 | DIODE MTZN-10C | |
| D1408 | 8-719-110-14 | DIODE RD9.1ES-B3 | |
| D1409 | 8-719-110-14 | DIODE RD9.1ES-B3 | |
| D1410 | 8-719-110-14 | DIODE RD9.1ES-B3 | |
| D1415 | 8-719-110-03 | DIODE RD7.5ES-B2 | |
| D1418 | 8-719-110-03 | DIODE RD7.5ES-B2 | |
| D1419 | 8-719-110-03 | DIODE RD7.5ES-B2 | |
| D1420 | 8-719-110-03 | DIODE RD7.5ES-B2 | |
| D1421 | 8-719-110-03 | DIODE RD7.5ES-B2 | |
| D1422 | 8-719-110-03 | DIODE RD7.5ES-B2 | |
| D1423 | 8-719-110-03 | DIODE RD7.5ES-B2 | |
| D1424 | 8-719-110-03 | DIODE RD7.5ES-B2 | |
| D1425 | 8-719-110-03 | DIODE RD7.5ES-B2 | |
| D1426 | 8-719-110-03 | DIODE RD7.5ES-B2 | |
| D1501 | 8-719-300-33 | DIODE RU-3AM | |
| D1502 | 8-719-911-19 | DIODE 1SS119 | |
| D1503 | 8-719-911-19 | DIODE 1SS119 | |
| D1504 | 8-719-911-19 | DIODE 1SS119 | |
| D1505 | 8-719-911-19 | DIODE 1SS119 | |
| D1506 | 8-719-982-33 | DIODE MTZJ-36D | |
| D1507 | 8-719-911-19 | DIODE 1SS119 | |
| D1510 | 8-719-911-19 | DIODE 1SS119 | |

<IC>

| | | | |
|---|---|---|---|
| IC201 | 8-759-013-17 | IC TDA6200 | |
| IC1401 | 8-752-032-27 | IC CXA1114P | |
| IC1402 | 8-759-946-32 | IC TEA2014A | |
| IC1403 | 8-759-140-53 | IC UPD4053BC | |
| IC1501 | 8-759-942-16 | IC TEA2031A | |

<JACK>

| | | | |
|---|---|---|---|
| J1402 | 1-561-534-41 | SOCKET 21P | |
| J1403 | 1-561-534-41 | SOCKET 21P | |

<TRANSISTOR>

| | | | |
|---|---|---|---|
| Q201 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q202 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q1401 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q1402 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q1403 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q1404 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |

<RESISTOR>

| | | | | | |
|---|---|---|---|---|---|
| R201 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W |
| R202 | 1-216-206-00 | METAL GLAZE | 2.2K | 5% | 1/8W |

# J1

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R203 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R204 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R205 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R206 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R207 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R208 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R209 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R210 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R211 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R212 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R213 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R214 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R215 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R216 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R217 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R218 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R219 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R220 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R221 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R222 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R223 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R224 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R225 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R226 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R227 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R228 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R229 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R230 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R231 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R232 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R233 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R234 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R235 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R236 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R240 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R241 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |
| R242 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |
| R243 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R244 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R245 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R246 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R247 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R248 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R249 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R250 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R1400 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R1401 | 1-216-023-00 | METAL GLAZE | 82 | 5% | 1/10W | |
| R1402 | 1-216-170-00 | METAL GLAZE | 68 | 5% | 1/8W | |
| R1403 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R1404 | 1-216-178-00 | METAL GLAZE | 150 | 5% | 1/8W | |
| R1405 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W | |
| R1407 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R1408 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R1409 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R1410 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R1411 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R1412 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R1413 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R1414 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R1415 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W | |
| R1416 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W | |
| R1417 | 1-216-023-00 | METAL GLAZE | 82 | 5% | 1/10W | |
| R1418 | 1-247-738-11 | CARBON | 82 | 5% | 1/2W | F |
| R1419 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R1420 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R1421 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R1422 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1423 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W | |
| R1424 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W | |
| R1425 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R1426 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1427 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | |
| R1428 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R1429 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R1430 | 1-216-170-00 | METAL GLAZE | 68 | 5% | 1/8W | |
| R1431 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R1432 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R1433 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R1434 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| R1437 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W | |
| R1440 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R1441 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R1442 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R1443 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R1444 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R1445 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1/10W | |
| R1446 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R1447 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R1448 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1449 | 1-216-023-00 | METAL GLAZE | 82 | 5% | 1/10W | |
| R1452 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1453 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1454 | 1-216-180-00 | METAL GLAZE | 180 | 5% | 1/8W | |
| R1455 | 1-216-180-00 | METAL GLAZE | 180 | 5% | 1/8W | |
| R1457 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1459 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1460 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | |
| R1461 | 1-216-190-00 | METAL GLAZE | 470 | 5% | 1/8W | |
| R1462 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R1463 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1464 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R1465 | 1-216-023-00 | METAL GLAZE | 82 | 5% | 1/10W | |
| R1466 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R1467 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1468 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1469 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1470 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1471 | 1-216-023-00 | METAL GLAZE | 82 | 5% | 1/10W | |
| R1472 | 1-216-023-00 | METAL GLAZE | 82 | 5% | 1/10W | |
| R1473 | 1-216-023-00 | METAL GLAZE | 82 | 5% | 1/10W | |
| R1474 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R1476 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R1477 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R1478 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R1480 | 1-216-190-00 | METAL GLAZE | 470 | 5% | 1/8W | |
| R1482 | 1-216-178-00 | METAL GLAZE | 150 | 5% | 1/8W | |
| R1483 | 1-216-178-00 | METAL GLAZE | 150 | 5% | 1/8W | |
| R1484 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R1485 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R1486 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R1487 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R1488 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R1489 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R1501 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1502 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W | |
| R1503 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R1504 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R1505 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1506 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R1509 | 1-216-105-00 | METAL GLAZE | 220K | 5% | 1/10W | |
| R1510 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R1511 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1512 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R1513 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |
| R1514 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1515 | 1-216-117-00 | METAL GLAZE | 680K | 5% | 1/10W | (KV-C2161D,C2561D) |
| R1516 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R1517 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R1519 | 1-216-101-00 | METAL GLAZE | 150K | 5% | 1/10W | |
| R1520 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | (KV-C2161D,C2561D) |
| | 1-216-111-00 | METAL GLAZE | 390K | 5% | 1/10W | (KV-C2961D) |
| R1521 | 1-216-214-00 | METAL GLAZE | 4.7K | 5% | 1/8W | |
| R1550 | 1-216-349-00 | METAL OXIDE | 1 | 5% | 1W F | (KV-C2961D) |
| R1556 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |

<VARIABLE RESISTOR>

| | | | |
|---|---|---|---|
| RV1501 | 1-238-023-11 | RES, ADJ, CARBON | 470K |
| RV1502 | 1-238-016-11 | RES, ADJ, CARBON | 10K |
| RV1503 | 1-238-017-11 | RES, ADJ, CARBON | 22K |
| RV1504 | 1-238-012-11 | RES, ADJ, CARBON | 1K |
| RV1505 | 1-238-023-11 | RES, ADJ, CARBON | 470K |
| RV1506 | 1-238-017-11 | RES, ADJ, CARBON | 22K |
| RV1507 | 1-238-009-11 | RES, ADJ, CARBON | 220 |
| RV1508 | 1-238-016-11 | RES, ADJ, CARBON | 10K |
| RV1509 | 1-238-023-11 | RES, ADJ, CARBON | 470K |

**********

| | | |
|---|---|---|
| *A-1654-004-A | IFG BOARD, COMPLETE (KV-C2161D) | |
| | ********** | |
| *A-1654-005-A | IFG BOARD, COMPLETE (KV-C2561D) | |
| | ********** | |
| *A-1654-008-A | IFG BOARD, COMPLETE (KV-C2961D) | |
| | ********** | |

<CAPACITOR>

| | | | | | |
|---|---|---|---|---|---|
| C1 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C2 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C3 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C4 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C5 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C6 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C7 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C8 | 1-124-907-11 | ELECT | 10MF | 20% | 50V |
| C9 | 1-130-471-00 | MYLAR | 0.001MF | 5% | 50V |
| C10 | 1-163-121-00 | CERAMIC CHIP | 150PF | 5% | 50V |
| C11 | 1-163-119-00 | CERAMIC CHIP | 120PF | 5% | 50V |
| C12 | 1-136-298-00 | FILM | 0.0033MF | 2% | 100V |
| C13 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C14 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C15 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C16 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C17 | 1-124-907-11 | ELECT | 10MF | 20% | 50V |
| C18 | 1-137-047-11 | FILM | 0.01MF | 10% | 400V |
| C19 | 1-137-047-11 | FILM | 0.01MF | 10% | 400V |
| C20 | 1-126-233-11 | ELECT | 22MF | 20% | 50V |
| C21 | 1-126-233-11 | ELECT | 22MF | 20% | 50V |
| C22 | 1-137-098-11 | FILM | 0.1MF | 10% | 100V |
| C23 | 1-137-031-11 | FILM | 0.22MF | 10% | 100V |
| C24 | 1-124-034-51 | ELECT | 33MF | 20% | 16V |
| C25 | 1-137-102-11 | FILM | 0.022MF | 10% | 250V |
| C26 | 1-137-094-11 | FILM | 0.047MF | 10% | 100V |
| C27 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C28 | 1-163-109-00 | CERAMIC CHIP | 47PF | 5% | 50V |
| C29 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C30 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C31 | 1-137-047-11 | FILM | 0.01MF | 10% | 400V |
| C32 | 1-130-479-00 | MYLAR | 0.0047MF | 5% | 50V |
| C33 | 1-163-081-00 | CERAMIC CHIP | 0.22MF | | 25V |
| C34 | 1-137-031-11 | FILM | 0.22MF | 10% | 100V |
| C35 | 1-124-907-11 | ELECT | 10MF | 20% | 50V |
| C36 | 1-163-119-00 | CERAMIC CHIP | 120PF | 5% | 50V |
| C37 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C38 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C39 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |

<FILTER>

| | | |
|---|---|---|
| CDA1 | 1-404-751-11 | DISCRIMINATOR, CERAMIC |
| CDA2 | 1-404-750-11 | DISCRIMINATOR, CERAMIC |
| SFT1 | 1-527-840-00 | FILTER, CERAMIC |
| SFT2 | 1-527-839-00 | FILTER, CERAMIC |

<DIODE>

| | | |
|---|---|---|
| D3 | 8-719-400-18 | DIODE MA152WK |

<IC>

| | | |
|---|---|---|
| IC1 | 8-759-003-90 | IC TBA129 |
| IC2 | 8-759-003-90 | IC TBA129 |
| IC3 | 8-759-030-48 | IC TDA6600-2 |
| IC4 | 8-759-513-48 | IC TDA2595/V9 |

<CONNECTOR>

| | | |
|---|---|---|
| IFG13 | *1-565-488-11 | CONNECTOR, BOARD TO BOARD 12P |

<COIL>

| | | | |
|---|---|---|---|
| L1 | 1-408-410-00 | INDUCTOR | 12UH |
| L2 | 1-408-410-00 | INDUCTOR | 12UH |
| L3 | 1-410-064-11 | INDUCTOR | 2.7MMH |
| L4 | 1-408-421-00 | INDUCTOR | 100UH |
| L5 | 1-408-421-00 | INDUCTOR | 100UH |

<TRANSISTOR>

| | | |
|---|---|---|
| Q2 | 8-729-901-00 | TRANSISTOR DTC124EK |
| Q3 | 8-729-216-22 | TRANSISTOR 2SA1162-G |
| Q4 | 8-729-901-00 | TRANSISTOR DTC124EK |

<RESISTOR>

| | | | | | |
|---|---|---|---|---|---|
| JR8 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR10 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| R1 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W |
| R2 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W |
| R3 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W |
| R5 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W |
| R6 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W |

IFG

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R7 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | |
| R9 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R11 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1/10W | |
| R12 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R13 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W | |
| R15 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| R16 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R17 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R18 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R19 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R20 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R22 | 1-216-099-00 | METAL GLAZE | 120K | 5% | 1/10W | |
| R24 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R25 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |

<VARIABLE RESISTOR>

| | | | |
|---|---|---|---|
| RV1 | 1-238-016-11 | RES, ADJ, CARBON 10K | |
| RV2 | 1-238-019-11 | RES, ADJ, CARBON 47K | |

**********

MISCELLANEOUS
**********

| | | | |
|---|---|---|---|
| ⚠ | 1-426-383-11 | COIL, DEMAGNETIZATION (KV-C2161D) | |
| ⚠ | 1-426-372-11 | COIL, DEMAGNETIZATION (KV-C2561D) | |
| ⚠ | 1-426-398-11 | COIL, DEMAGNETIZATION (KV-C2961D) | |
| ⚠ | 1-451-295-11 | DEFLECTION YOKE (Y21PFA2) (KV-C2161D) | |
| ⚠ | 1-451-311-21 | DEFLECTION YOKE (Y25FXA) (KV-C2561D) | |
| ⚠ | 1-451-313-21 | DEFLECTION YOKE (Y29FXA) (KV-C2961D) | |
| | 1-452-032-00 | MAGNET, DISK; 10MM ϕ | |
| | 1-452-094-00 | MAGNET, ROTATABLE DISK; 15MM ϕ | |
| | 1-452-277-00 | MAGNET, BMC (KV-C2161D) | |
| ⚠ | 1-452-509-42 | NECK ASSY, PICTURE TUBE (NA-308) | (KV-C2961D) |
| | 1-544-525-11 | SPEAKER (KV-C2161D) | |
| | 1-504-146-11 | SPEAKER (5X11CM) (KV-C2561D,C2961D) | |
| ⚠ | 1-590-501-11 | CORD, POWER (WITH NOISE FILTER) | |
| V901 ⚠ | 8-738-758-05 | PICTURE TUBE (A51JXH61X) (KV-C2161D) | |
| ⚠ | 8-733-231-05 | PICTURE TUBE (A59JWC61X) (KV-C2561D) | |
| ⚠ | 8-733-831-05 | PICTURE TUBE (A68JYL61X) (KV-C2961D) | |

**********

ACCESSORIES AND PACKING MATERIALS
**********

| | | |
|---|---|---|
| | 3-755-462-11 | MANUAL, INSTRUCTION (GERMAN/ENGLISH/FRENCH/DUTCH/ITALIAN/PORTUGUESE) (KV-C2161D) |
| | *4-033-049-01 | CUSHION (LOWER) (ASSY) (KV-C2161D) |
| | *4-033-050-01 | CUSHION (UPPER) (ASSY) (KV-C2161D) |
| | *4-033-051-01 | INDIVIDUAL CARTON (KV-C2161D) |
| | *4-380-340-01 | BAG, PROTECTION (KV-C2161D) |
| | *4-202-040-01 | INDIVIDUAL CARTON (KV-C2561D) |
| | *4-202-041-01 | CUSHION (UPPER) (ASSY) (KV-C2561D) |
| | *4-202-042-01 | CUSHION (LOWER) (ASSY) (KV-C2561D) |
| | 4-200-974-11 | MANUAL, INSTRUCTION (GERMAN/ENGLISH/FRENCH/DUTCH/ITALIAN/PORTUGUESE) (KV-C2561D) |
| | *4-396-065-01 | BAG, PROTECTION (KV-C2561D) |
| | *4-202-005-01 | INDIVIDUAL CARTON (KV-C2961D) |
| | *4-202-006-01 | CUSHION (UPPER) (ASSY) (KV-C2961D) |
| | *4-202-009-01 | CUSHION (BOTTOM) (KV-C2961D) |
| | 4-200-973-11 | MANUAL, INSTRUCTION (GERMAN/ENGLISH/FRENCH/DUTCH/ITALIAN/PORTUGUESE) (KV-C2961D) |

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| | *4-384-027-01 | BAG, PROTECTION (KV-C2961D) | |

REMOTE COMMANDER

| | | |
|---|---|---|
| | 1-465-796-11 | CONTROL UNIT, REMOTE (RM-816) |
| | 4-031-670-01 | COVER, POCKET (FOR RM-816) |


© 1992.7